



ROURKELA SMART CITY LIMITED

RFP. No. RSCL/110/2018/352

Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela

Volume 1 Instructions to Bidders

Date: 25 July 2018

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Important Dates

| Sl. No. | Activity | Timeline |
|---------|---|---|
| 1. | Release of RFP | 25 th July 2018 |
| 2. | Pre-bid Meeting date | 07 th August 2018 at 3:00 PM |
| 3. | Last date of receipt of pre-bid queries online/hard copy | 10 th August 2018 at 5:00 PM |
| 4. | Posting of response to queries and release of corrigendum, if any | 24 th August 2018 |
| 5. | Last date for submission of Bids online at www.tendersodisha.gov.in | 14 th September 2018 at 5:00 PM |
| 6. | Last date for submission of hard copy of documents – 5 Copies + CD/DVD The Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha | 17 th September 2018 at 3:00 PM |
| 7. | Date of opening of pre-qualification bids | 17 th September 2018 at 5:00 PM |
| 8. | Date of opening of Technical Bids | To be notified later |
| 9. | Date of Technical Presentation/Demo | To be notified later |
| 10. | Date of opening of Commercial Bids | To be notified later |

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Disclaimer

The information contained in this Request for Proposal document ("**RFP document**") or subsequently provided to Applicant(s), whether verbally or in writing or in any other form, by or on behalf of Rourkela Smart City Limited (hereafter referred to as "**RSCL**") or any of its employees or advisors, is provided to the Applicant(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided in writing.

This RFP document is not an offer or invitation to any other party. This RFP document is intended to be and is hereby issued only to the prospective Applicants. The purpose of this RFP document is to provide the Applicant(s) with information to assist the formulation of their Proposals. This RFP document does not purport to contain all the information that each Applicant may require. This RFP document may not be appropriate for all persons, and it is not possible for the RSCL, its employees or advisors to consider the investment objectives, financial situation and particular needs of each Applicant who reads or uses this RFP document. The assumptions, assessments, statements and information contained in the RFP document may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP document and where necessary obtain independent advice from appropriate sources on the legal, financial, regulatory, taxation and other consequences of entering into any agreement or arrangement relating to the proposed RFP document. RSCL, its employees and advisors make no representation or warranty as to the accuracy, adequacy, correctness, reliability or completeness of the RFP document.

Information provided in this RFP document to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. RSCL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

RSCL, its employees and advisors make no representation or warranty and shall have no liability to any person, including any applicant under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP document and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP document or arising in any way for participation.

RSCL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this RFP document.

RSCL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP document before the last date of bid submission. RSCL also may in its absolute discretion cancel the entire RFP, without providing any reason.

The issue of this RFP document does not imply that RSCL is bound to select an Applicant or to appoint the selected Applicant or Master System Integrator, as the case may be, for the Project and the RSCL reserves the right to reject all or any of the Applicants or Bids without assigning any reason whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the RSCL or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Applicant and the RSCL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

1. Introduction

1.1 Introduction to Rourkela Smart City Project

Rourkela is the 3rd largest city of Odisha after Bhubaneswar and Cuttack, located in Sundargarh district with a population of around 4.83 lakh as per the Census of India, 2011. Rourkela is primarily an industrial town lying in the midst of an important mineral belt in the country. In terms of connectivity, Rourkela is well connected through rail network with other parts of the country. Also, the city is likely to have air connectivity with select cities, including Bhubaneswar and Kolkata shortly.

Rourkela is one of the 99 smart cities selected under the Smart City Challenge in September, 2016 by Ministry of Housing and Urban Affairs. As mentioned in the SCP, the city has set its vision as follows:

*“Building on its **steel foundation, natural setting and cosmopolitan character**, Rourkela - a prominent eastern Indian city located **in the heart of tribal belt** renowned for producing ace **sporting talent**; will be a **liveable, inclusive, sustainable and self-reliant** city, propelling the **regional economic development** with best in class **future proof infrastructure**”.*

As per the Smart City Plan of Rourkela, an array of smart solutions has been proposed comprising the following as listed in the table below:

| # | Project Module | Name of Project |
|---|--------------------------------------|--|
| 1 | Swachh Rourkela/ Waste Management | Waste Management system comprising RFID / sensors tagged waste bins, GPS based waste collection and cesspool vehicles with RFID readers and vehicle tracking & monitoring system |
| 2 | Paribahan/ Traffic Management | Adaptive Traffic Signal Control System |
| | | Traffic Violation Detection System |
| 3 | City Governance | e-Governance (Urban services for Citizens) |
| | | Smart City App |
| | | City Surveillance System |
| | | Citizen Facilitation Centre's/ e-Kiosks |
| 4 | Other Smart Elements | Variable Message Signboards (VaMS) and Public Address System (PAS) |
| | | Smart Wi-Fi |
| | | Environment Monitoring System |
| | | Smart Classroom |

In addition to the smart components highlighted above, an Integrated Command and Control Centre (ICCC) has been proposed for purpose of integration of various services for monitoring and analysis.

Details of all the solutions along with scope of work is provided in “**RFP Volume 2: Scope of work**”

1.2 About the Rourkela Smart City Limited

For the execution of the Rourkela Smart city project, Government of Odisha has formed a Special Purpose Vehicle with the name “Rourkela Smart City Limited” (RSCL), with a Board of Directors headed by a Chairman and fifteen (15) other Directors. The Development Commissioner-cum-Addl. Chief Secretary, Government of Odisha is the Chairman of the Board of Directors and the Commissioner, Rourkela Municipal Corporation is the CEO.

1.3 RFP Format

The intent of this RFP is to invite bids from the Bidders for implementation of smart solutions in Rourkela. The Request for Proposal (RFP) consists of three volumes viz.

a. RFP Volume 1: Instruction to Bidders

Volume 1 details the instructions with respect to the bid process management, pre-qualification criteria, technical and commercial evaluation framework, and the technical & commercial forms.

b. RFP Volume 2: Scope of work

Volume 2 of the RFP provides information regarding the Project Implementation Plan, business requirements/applications to be covered and corresponding process related documentation, scope of work for the selected bidder, functional and technical requirements.

c. RFP Volume 3: Master Service Agreement

Volume 3 provides the contractual, legal terms & conditions, Service Level Agreements applicable for the proposed engagement.

1.4 Fact sheet

| # | Item | Description |
|-----|---|---|
| 1. | Method of Selection | The method of selection is QCBS – Quality cum Cost based Selection. The Contract will be awarded to the bidder with highest Total Score. The weightage given to the Technical and Financial scores will be 70% and 30% respectively. |
| 2. | Availability of RFP Documents | Download from www.tendersodisha.gov.in , www.rmc.nic.in , www.smartnet.niua.org (use Internet Explorer only) |
| 3. | Date of RFP Issuance | 25 th July 2018 |
| 4. | Tender document fee (Non-refundable and Not – exempted) | Indian Rupees 25,000 (Indian Rupees Twenty Five Thousand only) |
| 5. | Bid Security/ Earnest Money Deposit (EMD) | Indian Rupees 2.0 Crores (Indian Rupees Two Crore only) |
| 6. | Pre-bid Meeting date and Venue | 07 th August 2018 at 3:00 PM Conference room, Rourkela Municipal Corporation |
| 7. | Last date of receipt of pre-bid queries in online/hard copy to be addressed to the following: The Deputy Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha | 10 th August 2018 at 5:00 PM rourkelascl@gmail.com with cc to rourkelamsirfp@gmail.com |
| 8. | Posting of response to queries and release of corrigendum, if any | 24 th August 2018 at www.tendersodisha.gov.in/ www.rmc.nic.in |
| 9. | Last date for submission of Bids online at www.tendersodisha.gov.in | 14 th September 2018 at 5:00 PM |
| 10. | Last date for submission of hard copy of documents – 5 Copies + CD/DVD: The Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha | 17 th September 2018 at 5:00 PM |

| # | Item | Description |
|-----|---|--|
| 11. | Date of opening of pre-qualification bids | 17th September 2018 at 5:00 PM |
| 12. | Date of opening of Technical Bids | To be notified later |
| 13. | Date of Technical Presentation/Demo | To be notified later |
| 14. | Date of opening of Commercial Bids | To be notified later |
| 15. | Bid validity | Bid must remain valid up to 180 (One Hundred & Eighty) days from the actual date of submission of the Bid |
| 16. | Project Duration | Seventy Two (72) months including Implementation period of Twelve Months (12 months), and Operation and Maintenance period for Sixty (60) months from the date of go-live. |
| 17. | Currency | Currency in which the Bidders may quote the price and will receive payment is Indian Rupees only |
| 18. | Name and Address for Correspondence | The Chief Executive Officer, Rourkela Smart City Limited, Udit Nagar, Rourkela-769012, Sundergarh, Odisha Phone: 0661-2500388, 2500239 |

1.5 Acronyms

| # | Term/Acronym | Description |
|-----|--------------|--|
| 1. | AAA | Authentication, Authorization, and Accounting |
| 2. | ANPR | Automated Number Plate Recognition |
| 3. | Bid | Offer by the Bidder to fulfil the requirement of the Authority for an agreed price. It shall be a comprehensive technical and commercial response to the RFP |
| 4. | BoM | Bill of Material |
| 5. | ICCC | Integrated Command and Control Center |
| 6. | CCTV | Closed Circuit Television |
| 7. | DC | Data Center |
| 8. | DR | Disaster Recovery |
| 9. | EMD | Earnest Money Deposit |
| 10. | GIS | Geographical Information System |
| 11. | GPRS | General Packet Radio Service |
| 12. | GPS | Global Positioning System |
| 13. | ICT | Information and Communication Technology |
| 14. | IoT | Internet of Things |
| 15. | IP | Internet Protocol |
| 16. | ITIL | Information Technology Infrastructure Library |
| 17. | LED | Light Emitting Diode |
| 18. | LoI/LoA | Letter of Intent/Letter of Award |
| 19. | MoU | Memorandum of Understanding |
| 20. | MSI | Master System Integrator |
| 21. | O&M | Operation and Maintenance |
| 22. | OEM | Original Equipment Manufacturer |
| 23. | OFC | Optical Fibre Cable |
| 24. | PAS | Public Address System |
| 25. | PBG | Performance Bank Guarantee |
| 26. | PIS | Passenger Information System |
| 27. | PTZ | Pan Tilt Zoom |
| 28. | RFID | Radio Frequency Identification |
| 29. | RLVD | Red Light Violation Detection |
| 30. | RSCL | Rourkela Smart City Limited |
| 31. | SLA | Service Level Agreement |
| 32. | SOP | Standard Operating Procedure |
| 33. | UPS | Uninterruptible Power Supply |
| 34. | URL | Uniform Resource Locator |
| 35. | VA | Video Analytics |
| 36. | VaMS | Variable Message Signboards |
| 37. | VMS | Video Management Software/System |

1.6 Definition of Terms

As specified in Volume 3

2. Instruction to Bidders

2.1 General

- While every effort has been made to provide comprehensive and accurate background information, requirements and envisaged solution(s) specifications, Bidders must form their own conclusions about the solution(s) needed to meet the Client's requirements. Bidders and recipients of this RFP may wish to consult their own legal advisers in relation to this RFP.
- All information supplied by Bidders as part of their bids in response to this RFP, may be treated as contractually binding on the Bidders, on successful award of the assignment by the Client on the basis of this RFP.
- No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of Client. Any notification of preferred bidder status by Client shall not give rise to any enforceable rights by the Bidder. Client may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of Client.
- Sealed bids shall be received by the Client on the e-Procurement portal **www.tendersodisha.gov.in** before the time and date specified in Fact Sheet. In the event of the specified date for the submission of tender offers being declared a public holiday by the Government of Odisha, the offers will be received up to the appointed time on the next working day. The Client may, at its discretion, extend this deadline for submission of offers by issuing corrigendum and uploading the same on portal **www.tendersodisha.gov.in/www.rmc.nic.in**.
- The bidder shall submit within 3 days of online submission, Bid documents in the hard copy format to Client signed by the authorized signatory of bidder, which should match with the bid submitted online. The documents submitted online shall be considered as final and binding in case of any mismatch with the hard copy documents.
- Telex, cable, E-mail or facsimile offers will be disqualified.

2.2 Eligible Bidders

Bids may be submitted by either of the following categories of bidders only:

| | |
|--------------------------|---|
| Sole Bidder | <ul style="list-style-type: none"> • The Sole Bidder must be a Master System Integrator which has the capabilities to deliver the entire scope as mentioned in the RFP. • The Sole Bidder cannot bid as a part of any other consortium bid under this RFP. |
| Consortium/Joint Venture | <ul style="list-style-type: none"> • Bids can be submitted by a consortium of firms. A consortium should not consist of more than three parties (including the Lead Bidder). • One of the Firms would be designated as a "Lead Bidder". All the members of the consortium shall be jointly and severally responsible for delivery of products and services mentioned in all volumes of this RFP. • The Consortium would also be responsible for ensuring the successful execution of integrated solution including meeting the SLAs. The list of Consortium Members needs to be declared in the bid which cannot be changed by the bidder later on. • If any of bidders/members of one consortium becomes members of another consortium, both the consortiums will be disqualified. • The Lead Bidder shall be authorised by all the consortium members for: |

| | |
|--|--|
| | <ul style="list-style-type: none"> - The management of all Consortium Members who are part of the bid; - The supply, delivery and installation of all products and services submitted in their bid and as part of the contract; - To incur liabilities and receive instructions for and on behalf of any and all consortium members. Entire execution of the Contract, including payment, shall be done exclusively by/with the Lead Bidder; - Entire execution of the Contract, receipt of payments etc. on behalf of the consortium; - Ensuring that all the bid compliance is met by the consortium members (mentioned in the bid, failing which bid can be disqualified). |
|--|--|

2.3 Compliant Bids/Completeness of Response

- Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- Failure to comply with the requirements of this paragraph may render the bid non-compliant and the bid may be disqualified. Bidders must:
 - Include all documentation specified in this RFP, in the bid.
 - Follow the format of this RFP while developing the bid and respond to each element in the order as set out in this RFP.
 - Comply with all requirements as set out within this RFP.

2.4 Bidder to Inform

The Bidder shall be deemed to have carefully examined the Terms & Conditions, Scope, Service Levels, Specifications, and Schedules of this RFP. If bidder has any doubts/ clarifications as to the meaning of any portion of the Conditions or the specifications, bidder shall, before the last date for Submission of Pre-Bid Queries, set forth the particulars thereof and submit them to Client in writing in order that such doubt may be removed or clarifications are provided.

2.5 Bid Preparation and Demo costs

The Bidder shall bear all costs associated with the preparation and submission of its bid including any Demo/Presentation as may be required in accordance with the conditions of this RFP.

2.6 Pre-Bid Meeting & Clarifications

2.6.1 Pre-Bid Meeting

- Client will organize a pre-bid meeting within the date and timelines as specified in the Fact Sheet.
- Bidders may attend the pre-bid meeting, which will be held on the date specified in the Fact Sheet, during which the Bidders will be free to seek clarifications and make suggestions to the Client on the scope of the Services or otherwise in connection with the RFP. Attending any such pre-bid meeting is optional and is at the Bidders' expense. The maximum number of participants from a Bidder, who choose to attend the pre-bid meeting shall not be more than two (2) per Bidder. The representatives attending the pre-bid meeting shall accompany with a letter duly signed by the authorized signatory of his/her organization.
- Representatives from any OEM will not be allowed to be part of the pre-bid conference. OEM should also not accompany any of their system integrator or partners, and are expected to submit their queries through partners for seeking clarifications.

2.6.2 Bidders Queries

- Any clarification regarding the RFP document, technical and functional specifications and any other item related to this project can be submitted to Client as per the timelines mentioned in the Fact Sheet along with name and details of the organisation submitting the queries.
- Client shall not be responsible for ensuring that the Bidders' queries have been received by them. Any requests for clarifications post the indicated date and time shall not be entertained by Client.
- Bidders must submit their queries as per the format mentioned in Section 7 - Annexure I.
- Queries should be submitted online at rourkelascl@gmail.com with cc to rourkelamsirfp@gmail.com or in the form of hard copy within the date and timelines as specified in the Fact Sheet.

2.6.3 Responses to Pre-Bid Queries and Issue of Corrigendum

- Client shall formally respond to the pre-bid queries after the pre-bid conference. No further clarifications shall be entertained after the date and time of submission of queries.
- Client shall endeavour to provide timely response to all queries. However, Client makes no representation or warranty as to the completeness or accuracy of any response made in good faith. Client does not undertake to answer all the queries that have been posed by the bidders.
- Any modifications of the RFP Documents, which may become necessary as a result of the Pre-Bid Conference, shall be made by Client exclusively through a corrigendum. Any such corrigendum shall be deemed to be incorporated into this RFP. However, in case of any such amendment, the bid submission date may be extended at the discretion of Client.
- Any corrigendum/notification issued by Client, subsequent to issue of RFP, shall only be available/hosted on the website URL mentioned in the fact sheet. Any such corrigendum shall be deemed to be incorporated into this RFP.

2.7 RFP Document Fee

- RFP can be downloaded from the website URL mentioned in the fact sheet.
- Tender Fee of Indian Rupees 25,000/- (Rupees Twenty Five Thousand only) shall be paid online through e-Procurement portal. The tender fee shall be non-refundable.
- Without the payment of tender fee, the bids will be taken as incomplete and non-responsive and shall not be considered.

2.8 Earnest Money Deposit (EMD)

- EMD of Indian Rupees 2.0 Crore (Rupees Two Crore only) shall be through an irrevocable and unconditional Bank Guarantee from a scheduled bank in India or through a demand draft drawn in favour of Chief Executive Officer, Rourkela Smart City Limited payable at Rourkela. No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained. EMD shall be provided as per the format specified in Section 12 - Annexure 5 (b).
- The EMD in original shall be placed in a separate envelope and marked as "EMD/Bid Security" and shall be attached with the envelope containing the Qualification Documents marked as "Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela".
- The EMD of a Joint Venture shall be issued in the name of the Joint Venture submitting the bid provided the Joint Venture has legally been constituted, or else it shall be issued on the name of lead Bidder in charge of the Consortium proposed for the bid.
- The bid security of all unsuccessful bidders would be refunded without interest by Client on finalization of the bid in all respects by the successful bidder.

- The bid security, for the amount mentioned above, of successful bidder would be returned without interest upon submission of Performance Bank Guarantee by the successful bidder.
- In case bid is submitted without the bid security then Client reserves the right to reject the bid without providing opportunity for any further correspondence to the bidder concerned.

2.9 Forfeiture of EMD

The EMD shall be forfeited and appropriated by the Client as mutually agreed genuine pre-estimated compensation and damages payable to the Client for the time, cost and effort of the Client, without prejudice to any other right or remedy that may be available to the Client under the RFP or in law under the following conditions:

- If a Bidder withdraws or modifies its bid during the bid validity period or any extension agreed by the Bidder thereof;
- If a Bidder is disqualified in accordance with Clause 2.24;
- If the Bidder tries to influence the evaluation process or engages in corrupt, fraudulent, coercive or undesirable practice or restrictive practice as set out in Clause 2.25.
- If the bidder is declared as the successful bidder and it
 - Withdraws its Proposal during negotiations. However, failure to arrive at a consensus between the Client and the successful bidder shall not be construed as withdrawal of proposal by successful bidder;
 - fails to sign and return, as acknowledgement, the duplicate copy of the letter of award;
 - fails to submit the performance bank guarantee and/or sign the contract in accordance with this RFP;
 - fails to fulfil any other condition precedent to the execution of the Contract, as specified in the letter of award;
 - fails to execute the contract

2.10 Bid Validity Period

- The EMD submitted along with the bid will remain valid for validity period of the bid as mentioned in the fact sheet.
- In exceptional circumstances, prior to expiry of the bid validity period, the Client may request that the Bidders to extend the period of validity for a specified additional period at Bidder's cost. The request and the responses to the request shall be made in writing. A Bidder may refuse the request without risking forfeiting the EMD, but in this case, the bidder will be out of the competition for the award. Bidder agreeing to the request will not be required or permitted to modify its bid, but will be required to ensure that the bid remains secured for a correspondingly longer period.
- On completion of the validity period, unless the Bidder withdraws his bid in writing, it will be deemed valid until such time that the Bidder formally (in writing) withdraws bid.

2.11 Contents of Bid

The hard copy of bids should be submitted in separate envelopes which in turn shall be packed in a separate envelope and sealed as "Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela and not to be opened except in the presence of Tender Evaluation committee".

The four sets of documents (each enveloped separately and packed in a master envelope) are required to be submitted for evaluation. The sets will comprise of:

| Document Set | Name of Document | Evaluation Process | Content | Mode of Submission |
|--------------|------------------------|--------------------|--|----------------------|
| One | RFP Document fee & Bid | | <ul style="list-style-type: none"> • RFP Document Fee receipt | Online and Hard Copy |

| Document Set | Name of Document | Evaluation Process | Content | Mode of Submission |
|--------------|--------------------------------------|-------------------------------|---|----------------------|
| | Security/Earnest Money Deposit (EMD) | As detailed in Section 3.4.1. | <ul style="list-style-type: none"> Bid Security/Earnest Money Deposit (EMD) receipt | |
| Two | Pre-Qualification Bid | | <ul style="list-style-type: none"> Pre-Qualification bid containing all the documents as specified in Section 8.1 along with the required supporting documents | Online and Hard Copy |
| Three | Technical bid | As detailed in Section 3.4.2. | <ul style="list-style-type: none"> Technical Bid containing all the documents as specified in Section 9.1 along with the required supporting documents | Online and Hard Copy |
| Four | Commercial bid | As detailed in Section 3.4.3. | <ul style="list-style-type: none"> Commercial bid containing all the documents as specified in Section 10 (Annexure 4) | Online only |

- Please note that Prices should NOT be indicated in the Technical Bid but should only be indicated in the Commercial Bid.
- Each bid must be typed or written in indelible ink and an authorized representative of the Bidder shall sign the bid and physically initial and stamp all pages of the Bid. The authorization shall be by way of a written power of attorney executed in the format attached in Section 8.4. The name and position held by the person signing the Proposal must be typed or printed below.
- All the pages of the bid must be sequentially numbered. The bid documents must contain in the beginning of the document, a list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bid.
- The Bid shall contain no interlineations or overwriting, except as necessary to correct errors made by the Bidder. Any modifications, revisions, interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the authorised signatory/person signing the proposal.
- The physical submission of the bid has to be accompanied by soft copy non-writable CD/DVD.
- Failure to submit the bid before the submission deadline specified in the Fact Sheet would cause a bid to be disqualified.
- Client will not accept delivery of bid by fax, e-mail or by hand delivery.

2.12 Bid Formats

2.12.1 Pre-Qualification Bid Format

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|----|---------------------------------------|---------------------------------------|---|
| 1. | Pre-qualification checklist | As per format provided in section 8.1 | PQ_1 |
| 2. | Pre-Qualification Bid Covering Letter | As per format provided in section 8.2 | PQ_2 |

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|-----|---|--|---|
| 3. | Consortium Agreement, if applicable | As per format provided in section 8.3 | PQ_3 |
| 4. | Power of Attorney to Authorized Signatory | As per format provided in section 8.4 | PQ_4 |
| 5. | Power of Attorney for Lead Member of Consortium, as applicable | As per format provided in section 8.5 | PQ_5 |
| 6. | Bidder Profile | As per format provided in section 8.6 of this document. | PQ_6 |
| 7. | Bidder/Consortium Registration | <ul style="list-style-type: none"> • Certificate of Incorporation / Registration under companies Act, 1956/2013 or any suitable Act abroad • PAN Card for Bidder/each of the member of consortium • GST registration certificate for Bidder/each of the member of consortium <p><i>As per Pre-qualification criteria (Section 5) – SI # 1</i></p> | |
| 8. | Annual Turnover (For each consortium member in case of a JV/Consortium) | <p>Certificate from the Statutory auditor / CA clearly specifying the annual turnover for the specified years.</p> <p>As per format provided in section 8.7 of this document.</p> <p><i>As per Pre-qualification criteria (Section 5) – SI # 2</i></p> | PQ_7 |
| 9. | Net worth (For each consortium member in case of a JV/Consortium) | <p>Certificate from the Statutory auditor/ CA clearly specifying the net worth of the firm</p> <p>As per format provided in section 8.8 of this document.</p> <p><i>As per Pre-qualification criteria (Section 5) – SI # 3</i></p> | PQ_8 |
| 10. | Turnover from Smart Element related projects (For each consortium member) | <ul style="list-style-type: none"> • Certificate from the Statutory Auditor / CA clearly specifying the annual turnover from Smart Element related projects for the specified years. | PQ_9 |

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|-----|---|---|---|
| | in case of a JV/Consortium) | <ul style="list-style-type: none"> • Proof of the projects undertaken (work order & partial/ final completion certificate from Client) <p>As per format provided in section 8.9 of this document.</p> <p><i>As per Pre-qualification criteria (Section 5) – SI # 4</i></p> | |
| 11. | Undertaking for non-blacklisting clause | <p>Undertaking by the authorized signatory as per format</p> <p>As per format provided in section 8.10 of this document</p> <p><i>As per Pre-qualification criteria(Section 5) – SI # 5</i></p> | PQ_10 |
| 12. | Undertaking for Local Presence | <p>Confirmation of existing office in Rourkela or undertaking signed by authorized signatory to open office with GST registration in Rourkela within 60 days from Contract signing.</p> <p>As per format provided in section 8.11 of this document</p> <p><i>As per Pre-qualification criteria (Section 5) – SI # 6</i></p> | PQ_11 |
| 13. | Bidder Certifications | <p>Copies of valid certificates in the name of the sole bidder or Consortium members</p> <p><i>As per Pre-qualification criteria (Section 5) – SI # 7</i></p> | PQ_12 |
| 14. | Project Experience | <ul style="list-style-type: none"> • Summary of project experience as per format prescribed in Section 8.12 • Details of projects as per format prescribed in Section 8.13 • Self-certification for ongoing projects as per format specified in Section 8.14 <p><i>As per Pre-qualification criteria (Section 5) – SI # 8-14</i></p> | PQ_13 |

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|-----|----------------------------------|---|---|
| 15. | No Deviation Certificate | As per format in Section 8.15 | PQ_14 |
| 16. | Total responsibility certificate | As per format in Section 8.16 | PQ_15 |
| 17. | Additional Certificates | Copies of valid certificates in the name of the sole bidder or Consortium members <i>As per Pre-qualification criteria (Section 5) – SI # 16</i> | PQ_16 |

- All the Pre-Qualification Documents should be put in a separate envelope marked as “Pre-Qualification Bid: Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela and not to be opened except in the presence of Tender Evaluation committee”.

2.12.2. Technical Bid Format

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|----|--|---|---|
| 1. | Technical Bid Checklist | As per format provided in section 9.1 | TQ_1 |
| 2. | Technical Bid Covering Letter | As per format provided in Section 9.2 | TQ_2 |
| 3. | Bidder Profile | <ul style="list-style-type: none"> Details about bidder (whether sole bidder or Consortium) Bidder's General Information as required in Technical Criteria specified in section 6 & 6.1 As per format provided in Section 9.3 | TQ_3 |
| 4. | Annual Turnover | As per format provided in section 9.4 | TQ_4 |
| 5. | Net Worth | As per format provided in section 9.5 | TQ_5 |
| 6. | Number of persons employed in ICT projects | As per format provided in section 9.6 | TQ_6 |
| 7. | Project Experience Summary | As per format provided in Section 9.7 | TQ_7 |
| 8. | Project Details | <ul style="list-style-type: none"> Project citation as per format provided in section 9.8 and supporting documentary evidences Self-certification for ongoing projects as per format in section 9.9 | TQ_8 |
| 9. | Approach & Methodology | Details as required in Technical Criteria 6 & 6.1 As per format provided in Section 9.10 | TQ_9 |

| # | Section Heading | Details | Name to be given to the PDF file to be uploaded |
|-----|--|--|---|
| 10. | Demonstration of Use Cases | Details as required in Technical Criteria 6 & 6.1 As per format provided in Section 9.11 | TQ_10 |
| 11. | Project Plan and Resources | <ul style="list-style-type: none"> Project plan as per format provided in Section 9.12 Manpower Plan as per format provided in Section 9.13 Summary of resources as per format provided in Section 9.14 CV of resources as per format provided in Section 9.15 Undertaking regarding availability of key experts as per format provided in Section 9.16 | TQ_11 |
| 12. | Filled-in Bill of Materials | As per format provided in Section 9.17 | TQ_12 |
| 13. | Manufacturers'/ Producers' Authorization Form | As per format provided in Section 9.18 | TQ_13 |
| 14. | List of Proposed Sub-contractors (if applicable) | <ul style="list-style-type: none"> List of proposed sub-contractors as per format provided in Section 9.19 Undertaking from sub-contractors format provided in Section 9.20 | TQ_14 |
| 15. | Anti-Collusion Certificate | As per format provided in Section 9.21 | TQ_15 |
| 16. | Non-disclosure agreement | As per format provided in Section 9.22 | TQ_16 |

All the Technical Bid Documents should be put in a separate envelope marked as "Technical Bid: Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela and not to be opened except in the presence of Tender Evaluation committee".

2.12.3. Commercial Bid Format

The Bidder must submit the Commercial Bid in the formats specified in Section 10.

| Section # | Section Heading | Details |
|-----------|--------------------------------|--|
| 1. | Commercial Bid Covering Letter | As per format provided in Section 10.1 |
| 2. | Total Price Summary | As per format provided in Section 10.2 |
| 3. | CAPEX Summary Table | As per format provided in Section 10.3 |
| 4. | OPEX Summary Table | As per format provided in Section 10.4 |
| 5. | Price Sheet | As per format provided in Section 10.5 |

2.13. Language

The bid should be prepared and submitted by the bidders in English language only. If any submitted supporting documents are in any language other than English, translation of the same in English language is to be provided (duly attested) by the Bidders. For purposes of interpretation of the

documents, the English translation shall govern. Such translated documents shall be notarized and in case of any incorrectness of the translation, the bidder will be penalized.

2.14. Authentication of Bids

- An authorized representative (or representatives) of the Bidder shall sign the bid and physically initial and stamp all pages of the Pre-Qualification, Technical and Commercial Bids.
- Bid should be accompanied by an authorization in the name of the signatory (or signatories) of the Bid. The authorization shall be in the form of a written power of attorney accompanying the Bid or in any other form demonstrating that the representative has been duly authorized to sign.

2.15. Amendment of Request for Proposal

- At any time prior to the due date for submission of bid, Client may, for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder(s), modify the RFP document by issuing a corrigendum/amendment. Such corrigendum/amendment shall be uploaded on the e-procurement portal website, through corrigendum and shall form an integral part of RFP document. The relevant clauses of the RFP document shall be treated as amended accordingly and will be binding on the Client and the Bidder.
- It shall be the responsibility of the prospective bidder(s) to check the Client's website from time to time for any amendment in the RFP document. In case of failure to get the amendments, if any, Client shall not be responsible.
- In order to allow prospective bidders reasonable time to take the amendment into account in preparing their bids, Client, at its discretion, may extend the deadline for submission of bids. Such extensions shall be uploaded on website of the Client.
- Verbal clarifications and information given by the Client or any other Person for or on its behalf shall not in any way or manner be binding on the Client

2.16. Bid Price

- Commercial Bid shall be as per the format provided in Section 10. Bidders shall give the required details of all applicable taxes, duties, other levies and charges etc. in respect of direct transaction between Client and the Bidder.
- Bidders shall quote for the entire scope of contract on an "overall responsibility" basis such that the total bid price covers all obligations of Bidder mentioned in or to be reasonably inferred from the bidding documents in respect of providing the product/services.
- Prices quoted by the Bidder shall remain firm during the entire contract period and not subject to variation on any account. A bid submitted with an adjustable price quotation shall be treated as non-responsive and disqualified.
- Any conditional bid with any deviations from the terms and conditions of RFP shall be disqualified.

2.17. Deviations and Exclusions

Bids shall be submitted strictly in accordance with the requirements and terms & conditions of the RFP. The bidder shall submit a No Deviation Certificate as per the format specified in Section 8.15. The bids with deviation(s) are liable for rejection.

2.18. Total Responsibility

Bidder should issue a statement undertaking total responsibility for the defect free operation with effective SLAs of the proposed solutions as per the format mentioned in Section 8.16.

2.19. Late Bids

- Late submission will not be entertained and will not be permitted by the e-Procurement Portal.

- The bids submitted by telex/telegram/fax/e-mail etc. shall not be considered. No correspondence will be entertained on this matter.
- Client shall not be responsible for delay in submission of any online submission related or website related issues and date of submission cannot be extended for such reasons
- Client reserves the right to modify and amend any of the above-stipulated condition/criterion.

2.20. Right to Terminate the Process

Client may terminate the RFP process at any time and without assigning any reason. Client makes no commitments, express or implied, that this process will result in a business transaction with anyone. This RFP does not constitute an offer by Client.

2.21. Non-Conforming bids

A bid may be construed as a non-conforming bids and ineligible for consideration under the following circumstances:

- If it does not comply with the requirements of this RFP.
- If a bid does not follow the format requested in this RFP or does not appear to address the particular requirements of the solution.

2.22. Acceptance and Disqualification/Rejection of Bids

- Client reserves the right to reject in full or part, any or all bids without assigning any reason thereof. Client reserves the right to assess the Bidder's capabilities and capacity. The decision of Client shall be final and binding.
- Bid should be free of over writing. All erasures, correction or addition must be clearly written both in words and in figures and attested.
- In the event of any assumptions, presumptions, key points of discussion, recommendation or any points of similar nature submitted along with the Bid, Client reserves the right to reject the Bid and forfeit the EMD.
- The bid is liable to be rejected or at the discretion of Tender Evaluation Committee a proper explanation can be called in the following cases or in case bidder fails to meet the bidding requirements as indicated in this RFP:
 - During validity of the bid, or its extended period, if any, the bidder changes its quoted prices.
 - The bidder's bid is conditional and has deviations from the terms and conditions of RFP.
 - Bid is received in incomplete form.
 - Bid is not accompanied by all the requisite documents.
 - Information submitted in technical bid is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the contract (no matter at what stage) or during the tenure of the contract including the extension period if any.
 - Commercial bid is enclosed with the same document as technical bid.
 - Bidder tries to influence the bid evaluation process by unlawful/corrupt/fraudulent means at any point of time during the bid process.
 - If any of bidders/members of one consortium becomes members of the other consortium, both the consortiums will be disqualified.
 - Bids without EMD will be disqualified
- If there is any discrepancy in the commercial bid, it will be dealt as per the following:
 - Activities and items described in the Technical Proposal but not priced in the Commercial Proposal shall be assumed to be included in the prices of other activities or items, and no corrections will be made to the Commercial Proposal

- If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly.
- If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected.
- If there is a discrepancy between words and figures, the amount in words shall prevail.
- If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send explanations. On the above lines, Client reserves the right to take appropriate action which needs to be agreed by the Bidder. If the bidder does not agree to the decision of Client, the bid is liable to be disqualified.

2.23. Confidentiality

- From the time the Bids are opened to the time the Contract is awarded, the Bidder should not contact the Client on any matter related to its Qualification Documents, Technical Bid and/or Commercial Bid. Information relating to the evaluation of Proposals and award recommendations shall not be disclosed to the Bidders who submitted the Bids or to any other party not officially involved with the bid process, until the publication of the Contract award.
- Any attempt by a Bidder or anyone on behalf of the Bidder to influence improperly the Client in the evaluation of the Bids or award of the Contract may result in the disqualification of its Bid.
- All the material/information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the successful bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the successful Lead bidder and Consortium members who are proposed to be deployed on the project need to furnish a Non-Disclosure Agreement (NDA) as specified in section 9.22.

2.24. Key Personnel

- Client has identified certain key positions and minimum qualifications for each of the positions that should be part of project team of the bidder (hereby referred to as “key personnel”). Details of these key positions are provided in Section 6.1.1.
- The personnel proposed should possess good working knowledge of English language. No key personnel involved should have attained the age of 70 years at the time of submitting the proposal. The Client reserves the right to ask for proof of age, qualification and experience at any stage of the Project

2.24.1. Initial Composition; Full Time Obligation; Continuity of Personnel

- Bidder shall ensure that each member of the Key Personnel devotes substantial working time as per the staffing schedule/ manpower plan to perform the services to which that person has been assigned as per the bid.
- The Bidder shall assess support personnel; both technical and administrative to undertake the Project. If required, additional support and administrative staff shall be provided as needed for the timely completion of the Project without any additional cost to the Client. It is stressed that the time period for the Assignment indicated in the Technical Requirements should be strictly adhered to
- Bidder shall not make any changes to the composition of the Key Personnel and not require or request any member of the Key Personnel to cease or reduce his or her involvement in the provision of the Services during the defined term of the engagement unless that person resigns, is terminated for cause, is long-term disabled, is on permitted mandatory leave under Applicable Law or retires.

- In any such case, the Client's prior written consent would be mandatory.

2.24.2. Evaluations

- Bidder shall carry out an evaluation of the performance of each member of the Key Personnel in connection with the Services at least once in each Contract Year. Bidder shall provide reasonable written notice to Client of the date of each evaluation of each member of the Key Personnel. Client shall be entitled to provide inputs to the bidder for each such evaluation. Bidder shall promptly provide the results of each evaluation to Client, subject to Applicable Law.

2.24.3. Replacement

- In case any proposed resource resigns, then the Bidder has to inform Client within one week of such resignation.
- Bidder shall promptly initiate a search for a replacement to ensure that the role of any member of the Key Personnel is not vacant at any point in time during the contract period, subject to reasonable extensions requested by Bidder to Client.
- Before assigning any replacement member of the Key Personnel to the provision of the Services, Bidder shall provide Client with:
- A resume, curriculum vitae and any other information about the candidate that is reasonably requested by Client; and
- An opportunity to interview the candidate.
- The bidder has to provide replacement resource of equal or better qualification and experience as per the requirements of this RFP.
- If Client objects to the appointment, Bidder shall not assign the individual to that position and shall seek an alternative candidate in accordance with the resource requirements of this RFP.
- The bidder needs to ensure at least 4 weeks of overlap period in such replacements. Client will not be responsible for any knowledge transition to the replacement resource and any impact/escalation of cost incurred by the bidder due to resource replacement.

2.24.4. High Attrition

- If in the first 6 month period from the Contract Effective Date and in any rolling 12 months' period during the Term of contract, 15 percent or more of the members of the Key Personnel cease or reduce their involvement in the Services for any reason other than with Client's prior written consent, Bidder shall:
 - provide Client with a reasonably detailed explanation as to the reasons for such change, including, where applicable and permitted, notes from any exit interviews conducted by Bidder with any departing member of the Key Personnel; and
 - if such change to Key Personnel has or is likely to have any material adverse impact on the provision of the Services or any substantial part thereof, undertake, at its own costs, such remediation acts as are reasonably necessary in order to improve the retention of the Key Personnel including making reasonable changes to the human resources policies and procedures applicable to the Key Personnel (including those related to compensation, benefits and other conditions so that they are competitive with the market) as may be necessary to ensure that such policies and procedures comply with Good Industry Practice.

2.25. 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, Client shall reject a Bid 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. In such an event, Client shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD or PBG, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to Client for, inter alia, time, cost and effort of Client, in regard to the RFP, including consideration and evaluation of such Bidder’s Bid.

- Without prejudice to the rights of Client under Clause above and the rights and remedies which Client may have under the LoA or the Agreement, if a Bidder is found by Client to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LoA or the execution of the Agreement, such Bidder shall not be eligible to participate in any tender or RFP issued by Client during a period of 3 years from the date such Bidder is found by Client to have directly or through an agent, engaged or indulged in any Prohibited Practices.
- For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:
 - “corrupt practice” means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of Client who is or has been associated in any manner, directly or indirectly with the Selection Process or the LoA or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of Client, shall be deemed to constitute influencing the actions of a person connected with the Selection Process); or (ii) save as provided herein, engaging in any manner whatsoever, whether during the Selection Process or after the issue of the LOA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the Award or the Agreement, who at any time has been or is a legal, financial or technical consultant/adviser of Client in relation to any matter concerning the Project;
 - “fraudulent practice” means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process;
 - “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person’s participation or action in the Selection Process;
 - “undesirable practice” means (i) establishing contact with any person connected with or employed or engaged by Client with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or (ii) having a Conflict of Interest; and
 - “restrictive practice” means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Selection Process.

2.26. Conflict of Interest

- A bidder shall not have a conflict of interest that may affect the Selection Process or the Solution delivery (the “Conflict of Interest”). Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, Client shall forfeit and appropriate the EMD, if available, as mutually agreed genuine pre-estimated compensation and damages payable to Client for, inter alia, the time, cost and effort of Client including consideration of

- such Bidder's Bid, without prejudice to any other right or remedy that may be available to Client hereunder or otherwise.
- Client requires that the bidder provides solutions which at all times hold Client's interests' paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The bidder shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other Clients, or that may place it in a position of not being able to carry out the assignment in the best interests of Client.
 - **Conflicting activities: Conflict between consulting activities and procurement of goods, works or non-consulting services:** a Bidder that has been engaged by the Client to provide goods, works, or non-consulting services for a project, or any of its Affiliates, shall be disqualified from providing consulting services resulting from or directly related to those goods, works, or non-consulting services. Conversely, a Bidder hired to provide consulting services for the preparation or implementation of a project, or any of its Affiliates, shall be disqualified from subsequently providing goods or works or non-consulting services resulting from or directly related to the consulting services for such preparation or implementation.
 - **Conflicting Relationships: Relationship with the Client's staff:** a Bidder (including its Directors, Stakeholders or Management) that has a close business or family relationship with a professional staff of the Client who are directly or indirectly involved in any part of (i) the preparation of the RFP for the assignment, or (ii) the Technical Specifications of the goods, works or services may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to the Client throughout the selection process and the execution of the Contract.

2.27. Sub-Contracting

- The bidder would not be allowed to sub-contract work, except for the following:
 - Cabling and fixtures work, and all civil and electric work during implementation
 - Facility Management Staff at Command & Communications Centre
- Sub-contracting shall be allowed only with prior written approval of Client. However, even if the work is sub-contracted, the sole responsibility of the work shall lie with the lead bidder. The lead bidder shall be held responsible for any delay/error/non-compliance etc. of its sub-contracted vendor. The details of the sub-contracting agreements (if any) between both the parties would be required to be submitted to the Client.
- A list of all sub-contractors that the bidder proposes to sub-contract the works mentioned above shall be set out as per format provided in Section 9.19 along with an undertaking as specified in Section 9.20.

Note: The bidder will not be allowed to change any sub-contractor during any stage of the contract. If the bidder changes any sub-contractor, the bid/contract shall be liable for rejection.

2.28. Inclusion of MSMEs in Project Delivery

- Bidders are encouraged to include Micro, Small and Medium Enterprises (MSMEs) in the delivery of the project. Bidders should earmark a minimum of 20 % of the total contract for procuring goods and services from MSEs. Activities that can be sub-contracted to MSME/MSE partners are restricted to those defined under Sub-Contracting Clause 2.27 above.

2.29. Eligible Goods and Services, and OEM Criteria

For the below OEM criteria, either a public documentation or Self-certification on OEM letter head to be provided as a proof of compliance:

- For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such

- as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.
- All quoted OEM should have quality standard certifications like ISO 9001-2015, ISO 14001, ISO 27001, wherever applicable to ensure only quality OEM participation, as on date of RFP release.
 - OEM for the all active network, security, storage should have a registered office in India and should be directly present for last 7 years, from date of RFP publication. They should also have a development center in India.
 - OEM for the Command Control Software Platform should have a registered office in India and should be directly present for last 7 years, from date of RFP publication. They should also have a development center in India.
 - OEM for Command Control Software should have deployed at least one Smart City solution in India or globally. In addition, the same OEM should have deployed similar solution 3 or more locations globally.
 - Proposed OEM for any technology should not have filed for bankruptcy and should be profitable for at least last 2 consecutive financial years
 - The Bidder shall quote only one specific make and model from only one specific OEM, for each of the goods. Providing more than one option shall not be allowed. All goods or products quoted by the Bidder must be associated with item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the Bidder.
 - The proposed OEM should not have been blacklisted by any State / Central Government Department or Central /State PSUs.
 - All the OEMs should have authorized presence in India either directly or through channel partner(s) as on the date of release of RFP. Each of the proposed OEMs should have existing capability and infrastructure to provide 24x7x365 technical support with Indian Toll or Toll-Free call in numbers.
 - The OEM for all active components should give a declaration that products or technology quoted are neither end-of-sale nor end-of-life as on the date of installation and commissioning and are not end-of-support till the successful completion of O&M period of the project.
 - The proposed OEM should have installed base of at least 20% of the quantities proposed in the BoM for the quoted product or technology globally.
 - Independent Software Vendor (ISV) providing all software shall have implementation base of 3-5 projects globally, and evidence shall be provided such as ICC, DB, AI analytics, ERP etc.
 - Bidder must quote products in accordance with above clause "Eligible goods and related services.
 - Bidder's solution shall adhere to the "Cyber Security Model Framework for Smart Cities" (Office Memorandum No. K-15016/61/2016-SC-1 and K-14012/101(02)/2018-SC-III-A) issued by Ministry of Housing and Urban Affairs, Government of India) and all other standards as quoted in Volume-2 or as may be applicable.
 - During the Demonstration/Proof-of-Concept (PoC) at technical evaluation stage, the Technical Committee will give special attention to verify the quality, robustness and appropriateness of the proposed camera/other equipment for field scenario/conditions. If any brand / product is found un-suitable, Bidder may get dis-qualified or may be asked to replace the product which are in full compliance with the functional and technical requirements as specified in Volume-2 without any change in commercial bid.

- Adequate supporting documents pertaining to the above points, along with a summary compliance table, should be submitted in the technical proposal by the Bidder.

2.30. Right to vary quantity by Client

- At the time of award of contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased. It shall be without any change in the unit prices or other terms and conditions of the Bid and the bidding documents.
- If the Client does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.
- Repeat orders for extra items or additional quantities may be placed, if it is provided in the bidding document, on the rates and conditions given in the contract if the original order was given after inviting open competitive bids. Delivery or completion period may also be proportionally increased.

2.31. Withdrawal, Substitution, and Modification of Bids

- No bid may be withdrawn, substituted, or modified in the interval between the bid submission deadline and the expiration of the bid validity period specified by the Bidder in the Bid Submission Form, or any extension thereof agreed to by the Bidder. Withdrawal of a bid during this interval may result in the forfeiture of the EMD/Bid Security.
- Any alteration/ modification in the Application or additional information supplied subsequent to the Bid Submission Date, unless the same has been expressly sought for by the Client, shall be disregarded.
- Bids withdrawn shall not be opened and processed further.

2.32. Site Visit

- The Bidder may wish to visit and examine the site or sites and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering into the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.
- It is strongly recommended that bidders may conduct their site surveys as per the requirement of RFP wherever necessary, prior to proposal submission.
- No site visits shall be arranged or scheduled after the deadline for the submission of the Bids and prior to the award of Contract.

3. Selection Process for Bidder

3.1. Opening of Bids

- The Bids shall be opened by Client in presence of those Bidders or their authorised representatives who may be present at the time of opening.
- The representatives of the bidders should be advised to carry the identity card or a letter of Client from the bidder firms to identify that they are bona fide representatives of the bidder firm, for attending the opening of bid.
- There will be three bid-opening events
 - **Set 1 (RFP Document fee & Bid Security/EMD)**
 - **Set 2 (Pre-Qualification bid)**
 - **Set 3 (Technical bid)**
- The venue, date and time for opening the Bids bid are mentioned in the Fact sheet.
- The Technical Bids of only those bidders who clears the Pre- qualification stage shall be opened
- The date and time for opening of Technical bid is specified in the bidding schedule and that of the Commercial bid would be communicated at respective stages to eligible bidders.
- The Commercial Bids of only those bidders will be opened who score equal to or more than 70% in Technical Evaluation.

3.2. Preliminary Examination of Bids

Client shall examine the bids to determine whether they are complete, whether the documents have been properly signed and whether the bids are generally in order. Any bids found to be nonresponsive for any reason or not meeting any criteria specified in the RFP, shall be disqualified by Client and shall not be included for further consideration.

Initial Bid scrutiny shall be held and bids will be treated as non-responsive, if bids are:

- Not submitted in format as specified in the RFP document
- Received without the Letter of Authorization (Power of Attorney)
- Found with suppression of details
- With incomplete information, subjective, conditional offers and partial offers submitted
- Submitted without the documents requested
- Non-compliant to any of the clauses mentioned in the RFP
- With lesser validity period

3.3. Clarification on Bids

During the bid evaluation, Client may, at its discretion, ask the Bidder for any clarification(s) of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered, or permitted.

3.4. Evaluation Process

Client shall constitute a Tender Evaluation Committee to evaluate the responses of the bidders. The Tender Evaluation Committee shall evaluate the responses to the RFP and all supporting documents/documentary evidence. Inability to submit requisite supporting documents/documentary evidence by bidders may lead to rejection of their bids.

The decision of the Tender Evaluation Committee in the evaluation of bids shall be final. No correspondence will be entertained outside the process of evaluation with the Committee. The Tender

Evaluation Committee may ask for meetings or presentation with the Bidders to seek clarifications or conformation on their bids.

The Tender Evaluation Committee reserves the right to reject any or all bids. Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP. The steps for evaluation are as follows:

3.4.1. Stage 1: Pre-Qualification

- Client shall validate the Document Set 1 “RFP Document fee & Bid Security/Earnest Money Deposit (EMD)”.
- If the contents of the Set 1 are as per requirements, Client shall open the Document Set 2 “Pre-Qualification Bid”. **Each of the Pre-Qualification condition mentioned in Section 5 is MANDATORY.** In case, the Bidder does not meet any one of the conditions, the bidder shall be disqualified.
- Bidders would be informed of their qualification/disqualification based on the Pre-Qualification criteria and subsequently, the Bid Security amount shall be returned to the respective disqualified Bidders after the submission of Performance Bank Guarantee by the successful Bidder.
- Technical and Commercial bids for those bidders who do not pre-qualify will not be opened. Commercial bid will not be opened for those bidders, who do not qualify the technical evaluation. Bid Security amount shall be returned for those who do not qualify the Commercial evaluation stage after submission of PBG by successful bidder.

3.4.2. Stage 2: Technical Evaluation

- Document Set 3 “Technical bid” will be evaluated only for the bidders who succeed in Stage 1.
- Client will review the technical bids of the short-listed bidders for responsiveness. If the Technical Proposal is found
 - not to be complete in all respects; or
 - not duly signed by the authorised signatory of the Bidder; or
 - not to be in prescribed format; or
 - to contain alterations, conditions, deviations or omissions.then such Technical Proposal shall be deemed to be substantially non-responsive and be liable to be disqualified at Client’s discretion.
- The bidders' technical solutions proposed in the bid document shall be evaluated as per the requirements specified in the RFP and technical evaluation framework as mentioned in Section 6 & 6.1
- Bidders will be required to give demonstration of the use case and envisaged solution to Client as per the demo scripts as mentioned in this RFP. This will be an integral part of the technical evaluation process only for shortlisted bidders based on pre-qualification stage evaluation.
- Each Technical Bid will be assigned a Technical Score out of a maximum of 100 marks. Only the bidders who get Technical Score of more than or equal to 70% in Technical Evaluation will qualify for Commercial Evaluation stage.

3.4.3. Stage 3: Commercial Evaluation

- After the evaluation of Technical Bids of eligible Bidders is completed, the Client shall notify those Bidders whose Technical Bids were considered non-responsive to the RFP or who do not score the minimum qualifying technical score that their Commercial Bids will not be opened, along with information relating to the Bidder's overall technical score, as well as scores obtained for each criterion and sub-criterion. The Commercial Proposals of technically unqualified Bidders will be returned unopened. The Client shall simultaneously

notify in writing those Bidders that have achieved the minimum qualifying technical score and inform them of the date, time and location for the opening of their Commercial Bids.

- The Commercial Bids of eligible Bidders whose Technical Bids have scored at least the minimum qualifying technical score shall be opened online by the Client's Authorised Officials on the date and at the time notified by the Client in the presence of the Bidders whose designated representatives choose to be present. At the opening of the Commercial Bids, the names of the Bidders, and the overall technical scores, including the break-down by criterion, shall be read aloud. The Commercial Proposals will then be evaluated to confirm that they are responsive in terms of the RFP.
- The Commercial Bids will then be evaluated to confirm that they are responsive in terms of the RFP. If any Commercial Bid is found:
 - not to be complete in all respects;
 - not duly signed by the authorized signatory of the Bidder, wherever required;
 - not to be in the prescribed format; or
 - to contain alterations, conditions, deviations or omissions;
 - not as per the format provided in Section 10 (Annexure 4)

then such Commercial Bid shall be deemed to be substantially non-responsive and liable to be disqualified.

The Commercial Bids that are found to be responsive will be evaluated, and the total cost quoted by the eligible and technically qualified Bidders will be read aloud and recorded.

- Total Price shall be calculated based on the format provided in Section 10 (Annexure 4). The Total Price (C) for each responsive bid shall be sum of Capex cost and Opex cost, where,

Opex cost should be all inclusive of the costs of necessary goods such as spare parts, software license renewals, labour etc. needed for the continued and proper operation of the system. The Opex cost (O) shall be reduced to the net present value (NPV) and determined using the following formula:

$$O \equiv \sum_{x=1}^M \frac{O_x}{(1+I)^x}$$

where

M = number of years of the Operation and Maintenance period as defined Section 1.4 (Fact Sheet Sl. # 18)

x = an index number 1, 2, 3, ... M representing each year of the Operation and Maintenance service period.

O_x = total Opex Costs for year "x", as recorded in the 'OPEX Summary Table'.

I = discount rate to be used for the Net Present Value calculation of Opex Cost, @ 10% per annum.

- The lowest Total Price (C) as calculated above shall be given a commercial score (Sc) of 100 points. The Commercial Score of the other bidders shall be calculated with respect the lowest Total Price by any bidder. The methodology of Commercial Score shall be as follows. Commercial Score of the bidder under consideration
= (Lowest Total Price from all Commercial Bids / Total Price based on the Commercial bid by the bidder under consideration) X 100

3.4.4. Stage 4: Total Bid Evaluation

- The Total Score shall be based on Quality and Cost based Evaluation (QCBS). Technical Score shall have 70 % weightage and Commercial Score shall have 30% weightage.
- The Total Score of the bidder = 0.7*(Technical Score) + 0.3*(Commercial Score)
- The bidder achieving the highest Total Score shall be invited for negotiations for awarding the contract. In case of a tie where two or more bidders achieve the same highest Total

Score, the bidder with the higher Technical Score will be invited first for negotiations for awarding the contract.

4. Award of Contract

4.1. Negotiations

- The negotiations will be held at the date and address as informed by the Client.
- The Client shall prepare minutes of negotiations which will be signed by the Client and the Bidder's authorized representative.
- If the negotiations fail, the Client shall inform the first/highest ranking Bidder in writing of all pending issues and disagreements and provide a final opportunity to the first/highest ranking Bidder to respond. If disagreement persists, the Client shall terminate the negotiations informing the first/highest ranking Bidder of the reasons for doing so. Upon termination of the negotiations with the first/highest ranking Bidder, the Client may invite the next-ranked Bidder to negotiate the Contract with the Client or annul the bid process, reject all Proposals and invite fresh Proposals. If the Client commences negotiations with the next-ranked Bidder, the Client shall not reopen the earlier negotiations.

4.2. Award of Contract

- After completing the negotiations, the Client shall issue a letter of award (LoA) to the selected Bidder
 - accepting the Proposal of the selected Bidder with such modifications as may be negotiated with the Client;
 - requesting it to submit the Performance Bank Guarantee in accordance with Clause 4.3
 - Subject to submission of the Performance Bank Guarantee and satisfaction of all other conditions specified in the letter of award, requesting it to execute the Contract
- As an acceptance of the LoA, the Bidder shall sign and return a duplicate copy of the LoA to Client or the agency designated by the Client. The bidder shall return the duplicate copy along with a Performance Bank Guarantee within 15 working days from the date of issuance of LoA.
- On receipt of the Performance Bank Guarantee, Client or the agency designated by Client shall enter into a contract with the successful bidder. The Master Service Agreement (along with SLA which is an integral part of the Contract) is provided in RFP Volume III.
- Upon execution of the Contract, the Client will publish the award information; and promptly notify the other technically qualified Bidders of the conclusion of the selection process or upload the details of the selected Bidder on its website.
- If the selected Bidder fails to satisfy the conditions specified in Clause 4.2 (a) above or fails to execute the Contract on or before the date specified in the letter of award, the Client may, unless it consents to an extension, without prejudice to its other rights under the RFP or in law, disqualify the selected Bidder, revoke the letter of award and forfeit the EMD of the selected Bidder. If the Client elects to disqualify the selected Bidder and revoke the letter of award, it may invite the next ranked Bidder to negotiate the Contract with the Client or take any such measure as it may deem fit, including inviting fresh Proposals from the eligible Bidders or annulling the entire bid process.

4.3. Performance Bank Guarantee (PBG)

- Within fifteen (15) working days from the date of issuance of LoA, the successful Bidder shall at his own expense submit unconditional and irrevocable Performance Bank Guarantee (PBG) to the Client. The PBG shall be from a Nationalized Bank or a Scheduled Commercial Bank in the format prescribed in Section 11 - Annexure 5 (a), payable on demand, for the due performance and fulfilment of the contract by the bidder.
- This Performance Bank Guarantee shall be for an amount equivalent to 10% of total contract value.

- PBG shall be invoked by Client, in the event the Bidder:
 - fails to meet the Service Level Agreements (SLAs) as mentioned in RFP Volume III or any changes agreed between the parties,
 - fails to perform the responsibilities and obligations as set out in the RFP to the complete satisfaction of Client,
 - Misrepresents facts/information submitted to Client.
- The performance bank guarantee shall be valid till satisfactory completion of Operation and Maintenance Period. The performance bank guarantee may be discharged/returned by Client upon being satisfied that there has been due performance of the obligations of the bidder under the contract. However, no interest shall be payable on the performance bank guarantee.
- In the event of the Bidder being unable to service the contract for whatever reason(s), Client shall have the right to invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of Client under the contract in the matter, the proceeds of the PBG shall be payable to Client as compensation for any loss resulting from the bidder's failure to perform/comply its obligations under the contract.
- Client shall notify the bidder in writing of the exercise of its right to receive such compensation within 40 days, indicating the contractual obligation(s) for which the bidder is in default. After 40 days of notice, if the bidder fails to rectify the default, Client shall also be entitled to make recoveries from the bidder's bills, performance bank guarantee, or from any other amount due to him, an equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.
- In case the project is delayed beyond the project schedule as mentioned in RFP Vol 2, the performance bank guarantee shall be accordingly extended by the Bidder at their own cost till completion of scope of work as mentioned in RFP Volume II.
- This Performance Bank Guarantee shall be valid only up to the completion of the period of 'Go- Live' + 60 months for the Solution.
- On satisfactory performance and completion of the order in all respects and duly certified to this effect by the Project Coordinator, Contract Completion Certificate shall be issued and the PBG would be returned to the Bidder.

4.4. Warranty & Maintenance

- Bidder shall also provide complete maintenance support for all the proposed integrated solution as outlined in this RFP for a period of Sixty months from the date of go-live i.e. "Go-Live" + 60 months. "Go-live" is the date on which the proposed solution is completely operational as per the requirements provided in this RFP and all the acceptance tests are successfully concluded to the satisfaction of Client.
- During the warranty period, the bidder shall warrant that the goods supplied under the contract are new, unused, of the most recent version/models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The bidder further warrants that the goods supplied under this contract shall have no defects arising from design, materials or workmanship.
- Client or designated representatives of the bidder shall promptly notify successful bidder in writing of any claims arising under this warranty. Upon receipt of such notice, the bidder shall, within the warranty period and with all reasonable speed, repair or replace the defective systems, without costs to Client and within time specified and acceptable to Client.
- If the successful bidder, having been notified, fails to remedy the defect(s) within the period specified in the contract, Client may proceed to take such reasonable remedial action as may be necessary, at the successful bidder's risk and expense and without prejudice to any other rights, which Client may have against the bidder under the contract.

- During the comprehensive warranty period, the successful bidder shall provide all product(s) and documentation updates, patches/fixes, and version upgrades within 15 days of their availability and should carry out installation and make operational the same at no additional cost to Client.
- The successful bidder hereby warrants that:
 - The implemented integrated solution represents a complete, integrated solution meeting all the requirements as outlined in the RFP and further amendments if any and provides the functionality and performance, as per the terms and conditions specified in the contract.
 - The proposed integrated solution shall achieve parameters delineated in the technical specification/requirement.
 - The successful bidder shall be responsible for warranty services from licensors of products included in the systems.
 - The successful bidder undertakes to ensure the maintenance of the acceptance criterion/standards in respect of the systems during the warranty period.

4.5. Failure to agree with the Terms & Conditions of the RFP

- Failure of the successful bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event Client may award the contract to the next best value bidder or call for new bids.
- In such a case, Client shall invoke the PBG and/or forfeit the EMD.

5. Pre-Qualification Criteria

| # | Type | Eligibility Criteria | Document Proof |
|----|-----------------|---|--|
| 1. | Bidder Profile | <p>The Sole Bidder</p> <p>OR</p> <p>Consortium</p> <ul style="list-style-type: none"> • Maximum 3 members are allowed in a consortium (including the Lead Bidder) • Sole Bidder, or in case of a consortium, the lead bidder should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India. • The Sole Bidder or the Lead Bidder in case of a consortium should be in operation for a period of at least five (5) years as on published date of RFP • In case of a consortium, in addition each member other than the lead partner shall be in operation for a period of at least two (2) years) as on published date of RFP • All the consortium members are equally responsible and jointly & severally liable under this RFP for <ul style="list-style-type: none"> - The delivery of products and services - Successful completion of the entire project - Meeting the SLAs • Other consortium members should be registered in India under Companies Act 1956/2013 or as amended or a firm or limited liability partnership registered in India <p>Or</p> <p>Registered Abroad under any other Suitable Act</p> <ul style="list-style-type: none"> • None of the member of a given JV/Consortium can be a member of another JV/Consortium for submitting this same bid otherwise all the bids comprising the same member shall stand disqualified. However, a sub-contractor can be a member of more than one JV/ Consortium. | <ul style="list-style-type: none"> • Copy of Certificate of Incorporation /Registration under Companies Act, 1956/2013 or a firm or limited liability partnership registered in India • PAN Card • GST registration • Global companies to provide equivalent proof of incorporation/ registration • A written undertaking from each of the consortium members, in case of a consortium, duly signed by the authorized signatory, holding a written power of attorney for this bid on a stamp paper, authorizing the lead bidder to incur liabilities and receive instructions for and on behalf of any and all consortium members, and the entire execution of the Contract, including but not limited to the payments. <p>Please refer to sections 8.1-8.6</p> |
| 2. | Bidder Turnover | <p>The average annual Turnover (TO) in Indian Rupees (INR) for last 3 audited financial years (2014-15, 2015-16, 2016-17).</p> <ul style="list-style-type: none"> • For Sole Bidder – INR 400 Cr | <ul style="list-style-type: none"> • Audited financial statements for each of the consortium members for the last |

| # | Type | Eligibility Criteria | Document Proof |
|----|---|---|---|
| | | <ul style="list-style-type: none"> For Consortium <ul style="list-style-type: none"> Lead member should have minimum 60% of TO Each of the other members should have minimum 20% of TO All members together should meet INR 400 Cr TO requirement Lead member or Consortium members shall be into one of the following specific business areas. Specific Business Areas <ul style="list-style-type: none"> ICT Infrastructure Telecom Infrastructure IT System Integration Services | <ul style="list-style-type: none"> 3 financial years (2014-15, 2015-16, 2016-17) Certificate from the Statutory auditor / Practicing CA clearly stating the annual turnover for the specified years MoA/AoA/other relevant documents shall be submitted showing the area of business <p>Please refer to section 8.7</p> |
| 3. | Bidder Net Worth | <p>The Net Worth (NW) in Indian Rupees (INR) as on 2016-17 financial year end</p> <ul style="list-style-type: none"> For Sole Bidder: INR 100 Cr For Consortium <ul style="list-style-type: none"> Lead member should have minimum INR 60 Cr NW Each of the other members should have minimum INR 20 Cr NW All members together should meet INR 100 Cr NW requirement | <p>Certificate from the Statutory auditor / Practicing CA clearly stating the net worth.</p> <p>Please refer to section 8.8</p> |
| 4. | Bidder Turnover: Smart Element related projects | <p>The aggregate Turnover from the Smart Element related projects for last 3 audited financial years (2014-15, 2015-16, 2016-17).</p> <ul style="list-style-type: none"> For Sole Bidder – INR 50 Cr (Indian Rupees) For Consortium <ul style="list-style-type: none"> Lead member should have minimum INR 30 Cr from TSE Each of the other members should have minimum INR 10 Cr from TSE All members together should meet INR 50 Cr TSE requirement <p>Smart Elements Projects includes</p> <ul style="list-style-type: none"> Command & Communications /Control City Surveillance System Intelligent Waste Management System Adaptive Traffic Signal Control System Traffic Violation Detection System E-Governance Wi-Fi Hotspots Environmental Sensors Public Address System Variable Messaging Signboards | <ul style="list-style-type: none"> Certificate from the Statutory Auditor / Practicing CA clearly specifying the annual turnover from Smart Elements projects for the specified years. Proof of the projects undertaken (work order & partial (85% completion of project scope)/ final financial completion certificate) <p>Please refer to section 8.9</p> |

| # | Type | Eligibility Criteria | Document Proof |
|----|-------------------------|--|--|
| | | <ul style="list-style-type: none"> Smart Data Center/Disaster Recovery Center Projects Smart Classrooms | |
| 5. | Bidder Standing | The sole bidder OR the Lead bidder and each of the member of the Consortium, sub-contractor and OEMs should not be blacklisted by any Central / State Government Department or Central/State Public Sector Units (PSUs) in India as on the bid submission date | <p>Undertaking on the letter head, co-signed by the authorized signatory of bidder (In case of Consortium to be provided by each member), sub-contractor and OEM</p> <p>Please refer to section 8.10</p> |
| 6. | Bidder Local Presence | <p>Local presence:</p> <ul style="list-style-type: none"> The Bidder (Partner in charge in case of consortium) shall have an office in Rourkela or shall furnish an undertaking at the time of bid submission that the Bidder shall establish an office in Rourkela within sixty days of signing the Contract. The office shall be maintained during the entire duration of the Contract. | <p>For Bidder (Partner in charge in case of consortium:</p> <p>Confirmation of existing office in Rourkela or undertaking from authorized signatory to open office with GST registration in Rourkela within 60 days from Contract signing.</p> <p>Please refer to section 8.11</p> |
| 7. | Certifications | <p>The sole Bidder or any member in case of a Consortium, should possess any one of the below Certifications which are valid at the time of bid submission:</p> <ul style="list-style-type: none"> ISO 9001: 2015 ISO 20000:2011 for IT Service Management ISO 27001:2013 for Information Security Management System Any other Equivalent Certification | Copies of the valid certification in the name of the bidder |
| 8. | Bidder Experience: ICCC | The Bidder (any member in case of consortium) shall have successfully executed at least one project related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different city/campus-wide applications/sensors (covering Surveillance/ Traffic/Disaster Management/ City Operations/ Solid Waste Management/ Environment Sensors) at the command and control centre for a city wide / | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate issued & |

| # | Type | Eligibility Criteria | Document Proof |
|-----|---|--|---|
| | | campus wide deployment having a minimum value of INR 10 crores per project (excluding civil works) during last five (5) years. | signed by the competent authority of the Client on the Client's Letterhead |
| 9. | Bidder Experience: Intelligent Solid Waste Management | <p>The Bidder (any member in case of consortium) shall have successfully executed at least one project with regard to Intelligent Solid Waste Management System having a minimum value on INR 2 crore comprising any of the following components during last five years:</p> <ul style="list-style-type: none"> • Solid Waste Bin Management through RFID and integrating with Command & Control Centre • Solid Waste Collection Vehicle Management through deployment of AVLS • Solid Waste Billing and Collection Management • Solid Waste Field Staff Attendance Management | <ul style="list-style-type: none"> • In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. • For ongoing projects, the bidder may provide self-declaration certification |
| 10. | Bidder Experience: Integrated Traffic Management System | <p>The Bidder (any member in case of consortium) shall have successfully executed at least one project with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crores per project comprising any of the following key components during last five years:</p> <ul style="list-style-type: none"> • Traffic Violation Detection System with E-Challan generation • Adaptive Traffic Signal Control System • Variable Message Signboards • Public Address System | <p>The format of the self-certificate is provided in Section 8.14</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project.</p> |
| 11. | Bidder Experience: Wi-Fi Hotspots | The Bidder (any member in case of consortium) shall have experience of implementation and operations of at least two (2) City wide / campus wide Wi-Fi Projects consisting of over 50 Access Points per project during last five years | Please refer to sections 8.12-8.14 |
| 12. | Bidder Experience: Safety and Surveillance | The Bidder (any member in case of consortium) shall have successfully executed & commissioned video surveillance project with more than 200 outdoor CCTV IP cameras with analytics system in a city during last five years | |
| 13. | Bidder Experience: e-Gov, ERP, Web, Mobile App | The Bidder (any member in case of consortium) shall have successfully executed at least one project having a minimum value of INR 5 crores related to | |

| # | Type | Eligibility Criteria | Document Proof |
|-----|---------------------------------|--|---|
| | | implementation and support of citizen centric e-Governance applications implementing at least four (4) different citizen services along with implementation of systems including finance, HR & payroll, and maintenance & asset management modules during last five years | |
| 14. | Other Smart Solution Experience | The Bidder (any member in case of consortium) shall have successfully executed at least one project related to implementation of Environment Management System and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years. | |
| 15. | | Overall: Sole Bidder shall have at least one project experience in each of 7 project categories for pre-qualification stage in last five years. In case of a consortium, the lead member shall meet at least 3 out of 7 project experiences required as part of criteria 8-14, the gap may be met by other consortium members. | |
| 16. | Additional Certification | The sole bidder or any member in case of a consortium should have CMMi level 3 or above certification | Copies of the valid certification in the name of the bidder |

Notes:

- Any bid failing to meet all of the above eligibility criteria shall be disqualified and will not be considered for technical evaluation.
- For the purpose of evaluation criteria, if the bidding entity (the lead bidder in case of consortium) is 100% subsidiary of an international or Indian company then the lead bidder's parent company's relevant experience can be considered as lead bidder experience. In such case at least 20% of the key experts proposed should be from such parent company.
- Similarly, if the lead bidder has another entity which is not taking part in this consortium but is 100% owned subsidiary of the lead bidder, then the experience of 100% owned subsidiary can be considered as lead bidder experience. This is subject to lead bidder submitting undertaking (as per format specified in Section 8.17) from the concerned firm of transfer / sharing of the relevant experience to the lead bidder during project execution. In such case at least 20% of the key experts proposed should be from such subsidiary company.
- For all documents/certificates executed and issued overseas, the document/certificate will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the document/certificate provided by Bidder from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.

6. Technical Evaluation Framework

The Bidder's Technical Bid shall be evaluated as per the evaluation criteria in the following table.

| Section # | Evaluation Criteria | Marks |
|------------------------|---|-------|
| A | Sole Bidder /Consortium Profile | 10 |
| B | Sole Bidder /Consortium Project Experience | 30 |
| C | Demonstration of use cases and Approach & Methodology | 35 |
| D | Proposed Resources for the Project | 25 |
| Technical Score | | 100 |

Important: Bidder getting **Technical Score of 70%** will qualify for Commercial Evaluation stage.

Note: Client (or its nominated party) reserves the right to check/validate the authenticity of the information provided in the Pre-qualification and Technical Evaluation criteria and the requisite support must be provided by the Bidder.

The following sections explain how the Bidders shall be evaluated on each of the evaluation criteria.

6.1. Technical Bid Evaluation Criteria

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | | Maximum Marks | Documents Required |
|--|---|----------------------------------|--------------|---------------|---|
| A. Sole Bidder /Consortium Profile: 10 Marks | | | | | |
| A1 | People in organization (Number of persons employed in ICT projects) | Number of FTE | Marks | 2 | <ul style="list-style-type: none"> Certificate from the Authorised Signatory as on the bid submission date for Bidder/each of the consortium member. |
| | | >450 | 2 | | |
| | | >300 and <=450 | 1.4 | | |
| | | >200 and <=300 | 0.6 | | |
| In case of Consortium, at least 50% of the criteria shall be met by the Lead member and the remaining can be met by the other Consortium partners. | | | | | |
| A2 | Net worth as on 2016-17 financial year end | Net Worth (Indian Rupees) | Marks | 4 | <ul style="list-style-type: none"> Certificate from the Statutory auditor / Practising Chartered Accountant clearly stating the Net Worth of the Bidder/each member of the Consortium. |
| | | >=200 Cr | 4 | | |
| | | >=150 Cr and <200 Cr | 2.8 | | |
| | | >=100 Cr and <150 Cr | 1.2 | | |
| In case of Consortium, at least 60% of the net worth criteria shall be met by the Lead member and the remaining can be met by the other Consortium partners. | | | | | |
| A3 | Average Annual Turnover of last 3 audited financial years (2014-15, 2015-16, 2016-17). | Turnover (Indian Rupees) | Marks | 4 | <ul style="list-style-type: none"> Audited financial statements for each of the consortium members for the last 3 financial years (2014-15, 2015-16, 2016-17) Certificate from the Statutory auditor / Practising Chartered Accountant clearly stating the annual turnover for the specified years MoA/AoA/other relevant document shall be submitted showing the area of business |
| | | >=700 Cr | 4 | | |
| | | >=500 Cr and <700 Cr | 2.8 | | |
| | | >=400 Cr and <500 Cr | 1.2 | | |
| In case of Consortium, at least 60% of the Average Annual Turnover criteria shall be met by the Lead member and the remaining can be met by the other Consortium partners. | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--|---|---|--------------------|--------------------|-----|---|----|-----|----|-----|---|--|
| B. Sole Bidder /Consortium Project Experience: 30 Marks | | | | | | | | | | | | |
| B1 | Integrated Command and Control Centre (ICCC) | <ul style="list-style-type: none"> The Bidder (any member in case of consortium) shall have successfully executed at least two projects related to implementation of Integrated Operations Centre/Command and Control Centre integrating at least three (3) different applications/sensors (covering Surveillance/ Traffic/Disaster Management/City Operations/Solid Waste Management/ Environment Sensors) at the command and control centre for a city wide / campus wide deployment having a minimum value of INR 10 crores per project (excluding civil works) during last five (5) years. <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>7</td> </tr> <tr> <td>=3</td> <td>4.9</td> </tr> <tr> <td>=2</td> <td>2.1</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 7 | =3 | 4.9 | =2 | 2.1 | 7 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. For ongoing projects, the bidder may provide self-declaration certification <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing</p> |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 7 | | | | | | | | | | | |
| =3 | 4.9 | | | | | | | | | | | |
| =2 | 2.1 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--------------------|--|---|--------------------|---|-----|---|----|-----|----|-----|---|--|
| | | | | details of Scope of work and Value and stage of project should be provided. | | | | | | | | |
| B2 | Integrated Traffic Management System (ITMS) | <p>The Bidder (any member in case of consortium) shall have successfully executed at least two projects with regard to implementation of integrated Traffic Management System having a minimum value of INR 5 crores per project comprising any of the following key components during last five years:</p> <ul style="list-style-type: none"> Traffic Violation Detection System with E-Challan generation Adaptive Traffic Signal Control System Variable Message Signboards Public Address System <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>6</td> </tr> <tr> <td>=3</td> <td>4.2</td> </tr> <tr> <td>=2</td> <td>1.8</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 6 | =3 | 4.2 | =2 | 1.8 | 6 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. For ongoing projects, the bidder may provide self-declaration certification <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered</p> |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 6 | | | | | | | | | | | |
| =3 | 4.2 | | | | | | | | | | | |
| =2 | 1.8 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--------------------|--------------------------------|--|--------------------|---|-----|---|----|-----|----|-----|---|--|
| | | | | Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided. | | | | | | | | |
| B3 | Safety and Surveillance | <p>The Bidder (any member in case of consortium) shall have successfully executed & commissioned at least two city wide video surveillance project with more than 200 outdoor CCTV IP cameras with analytics system during last five years.</p> <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>5</td> </tr> <tr> <td>=3</td> <td>3.5</td> </tr> <tr> <td>=2</td> <td>1.5</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 5 | =3 | 3.5 | =2 | 1.5 | 5 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. For ongoing projects, the bidder may provide self-declaration certification <p>The format of the self-certificate is provided in Section 9.9</p> |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 5 | | | | | | | | | | | |
| =3 | 3.5 | | | | | | | | | | | |
| =2 | 1.5 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--------------------|------------------------------------|---|--------------------|--|-----|---|----|-----|----|-----|---|---|
| | | | | In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided. | | | | | | | | |
| B4 | e-Gov, ERP, Web, Mobile App | <p>The Bidder (any member in case of consortium) shall have successfully executed at least two projects having a minimum value of INR 5 crores related to implementation and support of citizen centric e-Governance applications implementing at least four (4) different citizen services along with implementation of systems including finance, HR & payroll, and maintenance & asset management modules during last five years.</p> <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>6</td> </tr> <tr> <td>=3</td> <td>4.2</td> </tr> <tr> <td>=2</td> <td>1.8</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 6 | =3 | 4.2 | =2 | 1.8 | 6 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> • Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. • Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead • In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. • For ongoing projects, the bidder may provide self-declaration certification |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 6 | | | | | | | | | | | |
| =3 | 4.2 | | | | | | | | | | | |
| =2 | 1.8 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--------------------|-------------------------------------|---|--------------------|--|-----|---|----|-----|----|-----|---|--|
| | | | | <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided.</p> | | | | | | | | |
| B5 | Solid Waste Management (SWM) | <p>The Bidder (any member in case of consortium) shall have successfully executed at least two projects with regard to Intelligent Solid Waste Management System having a minimum value on INR 2 crores comprising any of the following components during last five years:</p> <ul style="list-style-type: none"> • Solid Waste Bin Management through RFID and integrating with Command & Control Centre • Solid Waste Collection Vehicle Management through deployment of AVLS • Solid Waste Billing and Collection Management • Solid Waste Field Staff Attendance Management <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>2</td> </tr> <tr> <td>=3</td> <td>1.4</td> </tr> <tr> <td>=2</td> <td>0.6</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 2 | =3 | 1.4 | =2 | 0.6 | 2 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> • Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. • Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead • In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. • For ongoing projects, the bidder |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 2 | | | | | | | | | | | |
| =3 | 1.4 | | | | | | | | | | | |
| =2 | 0.6 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | |
|--------------------|-------------------------------|---|--------------------|--|-----|---|----|-----|----|-----|---|--|
| | | | | <p>may provide self-declaration certification</p> <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided.</p> | | | | | | | | |
| B6 | Wi-Fi | <p>The Bidder (any member in case of consortium) shall have experience of implementation and operations of at least two (2) City wide / campus wide Wi-Fi Projects consisting of over 50 Access Points per project during last five years.</p> <p>Points are allocated based on number of projects executed</p> <table border="1"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=4</td> <td>2</td> </tr> <tr> <td>=3</td> <td>1.4</td> </tr> <tr> <td>=2</td> <td>0.6</td> </tr> </tbody> </table> | Number of Projects | Marks | >=4 | 2 | =3 | 1.4 | =2 | 0.6 | 2 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> • Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. • Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead • In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the requirement through a self-declaration. |
| Number of Projects | Marks | | | | | | | | | | | |
| >=4 | 2 | | | | | | | | | | | |
| =3 | 1.4 | | | | | | | | | | | |
| =2 | 0.6 | | | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | |
|--------------------|--|--|--------------------|--|-----|---|----|---|---|--|
| | | | | <ul style="list-style-type: none"> For ongoing projects, the bidder may provide self-declaration certification <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided.</p> | | | | | | |
| B7 | Other Smart Solution Experience | <p>The Bidder (any member in case of consortium) shall have successfully executed at least one project related to implementation of Environment Management System and / or Smart Classrooms during last five years with a minimum value of INR 0.5 Crore during last five years.</p> <p>Points are allocated based on number of projects executed</p> <table border="1" data-bbox="496 1384 1015 1543"> <thead> <tr> <th>Number of Projects</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>>=2</td> <td>2</td> </tr> <tr> <td>=1</td> <td>1</td> </tr> </tbody> </table> | Number of Projects | Marks | >=2 | 2 | =1 | 1 | 2 | <p>Sole Bidder/any Member of Consortium/ Sub-Contractor(s):</p> <ul style="list-style-type: none"> Work order/ Contract clearly highlighting the scope of work, Bill of Material and value of the contract/order. Completion Certificate issued & signed by the competent authority of the Client on the Client's Letterhead In case of large orders/orders with operations & maintenance phase, the completion may specify successful execution and in-operation status of a part of the order meeting the |
| Number of Projects | Marks | | | | | | | | | |
| >=2 | 2 | | | | | | | | | |
| =1 | 1 | | | | | | | | | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required |
|---|-------------------------------|---|---------------|---|
| | | | | <p>requirement through a self-declaration.</p> <ul style="list-style-type: none"> For ongoing projects, the bidder may provide self-declaration certification <p>The format of the self-certificate is provided in Section 9.9</p> <p>In case of a Non-Disclosure Agreement (NDA), Company Secretary / Chartered Accountant Signed Certificate providing details of Scope of work and Value and stage of project should be provided.</p> |
| C. Demonstration of Use Cases and Approach & Methodology: 35 Marks | | | | |
| C1 | Project Demonstration | <p>Bidders will be required to give a Demo/PoC of maximum 4 use cases. Each successful demonstration of a use case shall be given five (5) marks. Bidder will be given 2 weeks to establish setup for infrastructure doing the Demo / POC at Rourkela. Bidder will be provided with a room to do the required setup.</p> <p>Details of the use cases are specified in section 9.11.</p> <p>OEM representative should be present at the time of Technical Presentation/Demo.</p> <p>Presentation/Demo shall be made by Project Director and Project Manager.</p> <p>The bidder shall ensure that the products/components/solutions used for demonstration of use cases will be the same as to the ones being proposed for final technical and commercial evaluation.</p> | 20 | |

| # | Technical Evaluation Criteria | Technical Evaluation Parameter | Maximum Marks | Documents Required | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---------------|--------------------|--|-------|--|---|---|-----|--------------------|---|--------------------|---|---|---|-------------|---|------------|---|-------------------|-----|----------------|---|
| C2 | Presentation on Approach & Methodology | <ul style="list-style-type: none"> Following parameters will be evaluated: <table border="1"> <thead> <tr> <th>Parameters</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>System Integrators understanding of Rourkela's requirements (functional and technical) and completeness of proposed solution</td> <td>6</td> </tr> <tr> <td>Assessment of proposed methodology whether it is clear, responds to the Scope of Work mentioned in Vol-2 of this RFP and leads to achieving results as per the requirements of the Project, deliver the expected output and timelines, and the level of detail of such output.</td> <td>3</td> </tr> <tr> <td>Completeness of project plan and ease of implementation (including training and change management plan)</td> <td>6</td> </tr> </tbody> </table> | Parameters | Marks | System Integrators understanding of Rourkela's requirements (functional and technical) and completeness of proposed solution | 6 | Assessment of proposed methodology whether it is clear, responds to the Scope of Work mentioned in Vol-2 of this RFP and leads to achieving results as per the requirements of the Project, deliver the expected output and timelines, and the level of detail of such output. | 3 | Completeness of project plan and ease of implementation (including training and change management plan) | 6 | 15 | | | | | | | | | | | | | |
| | | Parameters | Marks | | | | | | | | | | | | | | | | | | | | | |
| | | System Integrators understanding of Rourkela's requirements (functional and technical) and completeness of proposed solution | 6 | | | | | | | | | | | | | | | | | | | | | |
| | | Assessment of proposed methodology whether it is clear, responds to the Scope of Work mentioned in Vol-2 of this RFP and leads to achieving results as per the requirements of the Project, deliver the expected output and timelines, and the level of detail of such output. | 3 | | | | | | | | | | | | | | | | | | | | | |
| Completeness of project plan and ease of implementation (including training and change management plan) | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| D. Proposed Resources for the Project: 25 Marks | | | | | | | | | | | | | | | | | | | | | | | | |
| D1 | Key Personnel | The following profiles shall be evaluated: | 25 | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Parameter</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>Project Director</td> <td>4</td> </tr> <tr> <td>Project Manager</td> <td>3.5</td> </tr> <tr> <td>Solution Architect</td> <td>3</td> </tr> <tr> <td>Security Architect</td> <td>3</td> </tr> <tr> <td>Command & Communications/ Control Center Expert</td> <td>3</td> </tr> <tr> <td>ITMS Expert</td> <td>3</td> </tr> <tr> <td>IoT Expert</td> <td>3</td> </tr> <tr> <td>Network Architect</td> <td>1.5</td> </tr> <tr> <td>Master Trainer</td> <td>1</td> </tr> </tbody> </table> | | | Parameter | Marks | Project Director | 4 | Project Manager | 3.5 | Solution Architect | 3 | Security Architect | 3 | Command & Communications/ Control Center Expert | 3 | ITMS Expert | 3 | IoT Expert | 3 | Network Architect | 1.5 | Master Trainer | 1 |
| | | Parameter | | | Marks | | | | | | | | | | | | | | | | | | | |
| | | Project Director | | | 4 | | | | | | | | | | | | | | | | | | | |
| | | Project Manager | | | 3.5 | | | | | | | | | | | | | | | | | | | |
| | | Solution Architect | | | 3 | | | | | | | | | | | | | | | | | | | |
| | | Security Architect | | | 3 | | | | | | | | | | | | | | | | | | | |
| | | Command & Communications/ Control Center Expert | | | 3 | | | | | | | | | | | | | | | | | | | |
| | | ITMS Expert | | | 3 | | | | | | | | | | | | | | | | | | | |
| | | IoT Expert | | | 3 | | | | | | | | | | | | | | | | | | | |
| | | Network Architect | | | 1.5 | | | | | | | | | | | | | | | | | | | |
| Master Trainer | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Evaluation Framework | | | | | | | | | | | | | | | | | | | | | | | | |
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| # | Technical Evaluation Criteria | Technical Evaluation Parameter | | Maximum Marks | Documents Required |
|---|-------------------------------|--|-------------------------|---------------|--------------------|
| | | Parameter | Percentage Distribution | | |
| | | General Qualifications | 20% | | |
| | | Adequacy for the assignment | | | |
| | | Experience in similar capacity/ broad sector | 30% | | |
| | | Experience relevant to TOR/ Project | 50% | | |

Note

- For the positions of Solution Architect and Security Architect, any international experience in a similar role will carry 0.5 marks out of the total 3 marks.
- Bidder to submit the duly and completely filled compliance sheets of minimum functional and technical requirements (as provided in Volume 2 of this RFP) along with the technical response to RFP as part of bid submission. The same shall be considered as part of technical evaluation.
- For all documents/certificates executed and issued overseas, the document/certificate will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the document/certificate provided by Bidder from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate. It shall be the responsibility of the bidder to provide all necessary proof/ documentation/ certification and clearances with regard to global / overseas project experience.

6.1.1. Key Personnel

MSI shall provide adequate number of personnel, each responsible for a specific role within the project. MSI shall provide clear definition of the role and responsibility of each individual personnel. If required, additional support and administrative staff shall be provided as needed for the timely completion of the project without any additional cost to the Client. It is stressed that time period for the assignment indicated in the RFP shall be strictly adhered to. SI shall have a defined hierarchy and reporting structure for various teams that shall be part of the project. SI has to provide the list of proposed Resources for the Project. Any changes in Resource deployment will have to be approved by the Client.

Following table indicates the minimum qualification required for Key Positions identified for this project. However, SI shall independently estimate the team size required to meet the requirements of Service Levels as specified as part of this tender.

Except for Project Director, all other proposed positions shall be Onsite throughout the entire project implementation phase.

| # | Position | Minimum Qualifications and Experience |
|----|---|--|
| 1. | Project Director | <ul style="list-style-type: none"> a) Education: MCA/M. Tech/MBA/M.E & B. Tech/B.E. or equivalent from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 8 years of experience of leading such large projects |
| 2. | Project Manager | <ul style="list-style-type: none"> a) Education: MBA/MCA/M. Tech & B. Tech/B.E. or equivalent from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 5 years of experience of leading such large projects as a project manager c) Should preferably have PMP or Prince2 certification |
| 3. | Solution Architect | <ul style="list-style-type: none"> a) Education: MCA/M. Tech/B. Tech/B.E. or equivalent from a recognized educational institution b) Experience: Minimum 10 years in IT sector. Should have experience of more than 3 years as a Solution Architecture in large projects of similar nature. Any international experience in a similar role will be a plus. |
| 4. | Security Architect | <ul style="list-style-type: none"> a) Education: Bachelor in IT or Engineering b) Experience: more than 8 years of experience implementing secure networks. Must have industry standard certifications including CISSP. Must have at least two relevant projects (Network Security). Any international experience in a similar role will be a plus. |
| 5. | Command & Communications/ Control Center Expert | <ul style="list-style-type: none"> a) Education: B.Tech / M.Tech/MCA or equivalent from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have experience in designing & implementing Command Center for minimum 2 projects of similar nature |
| 6. | ITMS Expert | <ul style="list-style-type: none"> a) Education: Bachelor in Electronics or equivalent Engineering from a recognized educational institution b) Experience: Minimum 10 years. Should have experience in designing, implementing and integrating various ITMS sub-systems including Traffic Signalling and RLVD/ANPR for at least 2 projects |
| 7. | IoT Expert | <ul style="list-style-type: none"> a) Education: B.Tech / M.Tech or equivalent from a recognized educational institution |

| # | Position | Minimum Qualifications and Experience |
|-----|-------------------|---|
| | | b) Experience: Minimum 10 years in IT sector. Should have experience in designing & implementing IOT for at least two such projects of similar nature |
| 8. | Network Architect | a) Education: Bachelor of Engineering degree or MCA or equivalent b) Experience: More than 8 years of experience in network design and implementation of both active and passive infrastructure at city level. Must have at least three such projects (outdoor fibre optic based networks) |
| 9. | Master Trainer | a) B.Tech / M.Tech/MBA/MCA or equivalent from recognized educational institution b) Experience: Should have a minimum 4 years of experience in conducting trainings for similar applications & solutions |
| 10. | QA Manager | a) B.Tech / M.Tech/MBA/MCA from a recognized educational institution b) Experience: Should have a minimum 5 years of experience in quality management areas of similar projects. |

Note: CVs of QA Manager is required to be submitted along with the proposal but will not be evaluated.

Additional manpower plan for Operation and Maintenance Phase to be provided as per format provided in 9.11 (II). Minimum required staff and corresponding minimum qualifications and experience is as follows:

| # | Required Position | Minimum Qualifications and Experience |
|----|--------------------------------------|--|
| 1. | ITMS Support Engineer | Bachelor in Electronics with minimum 5 years' experience of deployment and maintenance of ITMS System. |
| 2. | SWM Support Engineer | Bachelor in Electronics with minimum 5 years' experience of deployment and maintenance of Intelligent SWM System. |
| 3. | e-Governance Support Engineer | Bachelor in IT or MCA with minimum 5 years' experience of deployment and maintenance of e-Governance Systems |
| 4. | Integration Support Engineer | Bachelor in Engineering with minimum 5 years' experience of deployment and maintenance of integrated command and control centre |
| 5. | Helpdesk Operations Support Engineer | Bachelor in Engineering with minimum 5 years' experience in deployment, management and maintenance of Contact centres/helpdesks. |
| 6. | Facility Management Supervisor | Graduate with minimum 5 years of experience in supervising, managing and support of facility management |
| 7. | Project Associates | Bachelor in Engineering/MCA with minimum 2 years of relevant experience. |

Note: CVs duly signed by the key expert and authorised representative are required to be submitted. The above CVs shall not be evaluated for technical score

Apart from the above –mentioned resources, the Bidder may also propose additional manpower to be deployed during the Operation & Maintenance phase of the Project as provided in the format 9.13 (II). Any additional or support manpower shall be estimated and should be accounted for in the Commercial

proposal by the selected bidder, so that, the project as per the scope defined and agreement are fulfilled and the project objectives are met. The resource mix should be a combination of L1, L2 and L3 (or above) level resources so that all SLA parameters can be met.

7. Annexure I – Template for Pre-Bid Queries

Bidder shall submit all pre-bid queries in excel in the following format along with the name and details of the organisation submitting the queries.

| # | RFP Volume, Section/FR/TR No* | RFP Page No. | Content in the RFP | Clarification Sought |
|---|-------------------------------|--------------|--------------------|----------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- In case of queries with regard to RFP document, please mention the section/clause as may be applicable.
- *In case of queries with regard to functional or technical requirements, please give reference of the corresponding FR/TR.

8. Annexure 2 – Formats for Submission of the Pre-Qualification Bid

8.1. Pre-Qualification Bid Checklist

| # | Compliance Criteria | Compliance (Yes/No) | Page No. and Section No. in bid |
|-----|---|---------------------|---------------------------------|
| 1. | RFP Document Fees | | NA |
| 2. | Earnest Money Deposit | | NA |
| 3. | Pre-Qualification Covering letter | | |
| 4. | Bidder Profile | | |
| 5. | Consortium Agreement | | |
| 6. | The average annual Turnover (TO) in Indian Rupees for last 3 audited financial years (2014-15, 2015-16, 2016-17). | | |
| 7. | The Positive Net Worth (PNW) in Indian Rupees as on 2016-17 financial year end. | | |
| 8. | The aggregate Turnover from the Smart Elements (TSE) projects for last 3 audited financial years (2014-15, 2015-16, 2016-17). | | |
| 9. | Bidder Standing (Blacklisting Certificate) | | |
| 10. | Bidder Local Presence | | |
| 11. | Certifications | | |
| 12. | Bidder Experience : ICCC | | |
| 13. | Bidder Experience: Intelligent SWM | | |
| 14. | Bidder Experience: Integrated Traffic Management System | | |
| 15. | Bidder Experience: Wi-Fi | | |
| 16. | Bidder Experience: Safety and Surveillance | | |
| 17. | Bidder Experience: e-Gov, ERP, Web, Mobile App | | |
| 18. | Bidder Experience: Other Smart Solutions (Environment Management System, Smart Classrooms) | | |
| 19. | Additional Certification (Valid ISO Certifications) | | |
| 20. | Power of Attorney | | |
| 21. | Total responsibility certificate | | |
| 22. | No Deviation Certificate | | |

*Page No. shall be as per Bidder's proposal

8.2. Pre-Qualification Bid Covering Letter

Date: dd/ mm / yyyy

To,

[]

Sub: Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela

Ref: RFP No. <<.....>> dated <<>>

Dear Sir,

With reference to your “**Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**”, we hereby submit our Prequalification bid.

We hereby declare that:

- a. We hereby acknowledge and unconditionally accept that the Client can at its absolute discretion apply whatever criteria it deems appropriate, not just limiting to those criteria set out in the RFP and related documents, in short listing of Agency for providing services.
- b. We have submitted EMD of Indian Rupees [] Crores and Tender fee of Indian Rupees [] online through NEFT/ RTGS in the <<Account details>> or Demand Draft no XXX or Bank Guarantee.
- c. We hereby declare that all information and details furnished by us in the Bid are true and correct, and all documents accompanying such application are true copies of their respective originals.
- d. We agree to abide by our offer for a period of 180 days from the date of opening of pre-qualification bid prescribed by Client and that we shall remain bound by a communication of acceptance within that time.
- e. We have carefully read and understood the terms and conditions of the RFP and the conditions of the contract applicable to the RFP. We do hereby undertake to comply as per these terms and conditions.
- f. In the event of acceptance of our bid, we do hereby undertake:
 - i. To supply the products and commence services as stipulated in the RFP document
 - ii. To undertake the project services for entire contract period from the date of signing of the contract as mentioned in the RFP document.
 - iii. We affirm that the prices quoted are inclusive of design, development, delivery, installation, commissioning, training, providing facility management, operation and maintenance and handholding support, and inclusive of all out of pocket expenses, taxes, levies discounts etc.
- g. We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.
- h. We understand that the **Client** may cancel the bidding process at any time and that **Client** is not bound to accept any bid that it may receive without incurring any liability towards the bidder.
- i. We fully understand and agree to comply that on verification, if any of the information provided in our bid is found to be misleading the selection process, we are liable to be dismissed from the selection process or termination of the contract during the project, if selected to do so.

In case of any clarifications please contact _____ email at

Thanking you,

Yours sincerely,

(Signature of the Lead bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

8.3. Consortium Agreement

DRAFT MEMORANDUM OF UNDERSTANDING EXECUTED BY MEMBERS OF THE CONSORTIUM

[On Non-judicial stamp paper of Indian Rupees 100 duly attested by notary public]

This Memorandum of Understanding (MoU) entered into this day of [Date] [Month] 2018 at [Place] among _____ (hereinafter referred to as "_____") and having office at [Address], India, as Party of the First Part and _____ (hereinafter referred as "_____") and having office at [Address], as Party of the Second Part and _____ (hereinafter referred as "_____") and having office at [Address], as Party of the Third Part.

The parties are individually referred to as Party and collectively as Parties.

WHEREAS Rourkela Smart City Limited has issued a Request for Proposal dated [Date] (RFP) from the Applicants interested in **Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela:**

AND WHEREAS the Parties have had discussions for formation of a Consortium for bidding for the said Project and have reached an understanding on the following points with respect to the Parties' rights and obligations towards each other and their working relationship.

AS MUTUAL UNDERSTANDING OF THE PARTIES, IT IS HEREBY AGREED AND DECLARED AS FOLLOWS:

- i. The purpose of this Agreement is to define the principles of collaboration among the Parties to:
 - a. Submit a response jointly to Bid for the "Request for Proposal for Selection of Agency for Implementation of Rourkela Smart City Solutions" as a Consortium.
 - b. Sign Contract in case of award.
 - c. Provide and perform the supplies and services which would be ordered by the Client pursuant to the Contract.
- ii. This Agreement shall not be construed as establishing or giving effect to any legal entity such as, but not limited to, a company, a partnership, etc. It shall relate solely towards the Client for "**Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**" for and related execution works to be performed pursuant to the Contract and shall not extend to any other activities.
- iii. The Parties shall be jointly and severally responsible and bound towards the Client for the performance of the works in accordance with the terms and conditions of the BID document, and Contract. The consortium members, if any will support the lead bidder in successful implementation of the project.
- iv. ----- (Name of Party) shall act as Lead Partner of the Consortium. As such, it shall act as the coordinator of the Party's combined activities and shall carry out the following functions:
 - d. To ensure the technical, commercial and administrative co-ordination of the work package
 - e. To lead the contract negotiations of the work package with the Client.
 - f. The Lead partner is authorized to receive instructions and incur liabilities for and on behalf of all Parties.
 - g. In case of an award, act as channel of communication between the Client and the Parties to execute the Contract
- v. That the Parties shall carry out all responsibilities as Developer in terms of the Project Agreement.

vi. That the broad roles and the responsibilities of each Party at each stage of the Bidding shall be as below:

Party A: _____

Party B: _____

Party C: _____

vii. That the Parties affirm that they shall implement the Project in good faith and shall take all necessary steps to see the Project through expeditiously.

viii. That this MoU shall be governed in accordance with the laws of India and courts in Odisha shall have exclusive jurisdiction to adjudicate disputes arising from the terms herein.

In witness whereof the Parties affirm that the information provided is accurate and true and have caused this MoU duly executed on the date and year above mentioned.

(Party of the first part) (Party of the second part)

(Party of the third part)

Witness:

i. _____

ii. _____

8.4. Format for Power of Attorney to Authorized Signatory

POWER OF ATTORNEY

[To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant Stamp Act. The stamp paper to be in the name of the company who is issuing the power of attorney.]

We, M/s. _____ (name of the firm or company with address of the registered office) hereby constitute, appoint and authorise Mr. or Ms. _____ (Name and residential address) who is presently employed with us and holding the position of _____, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things necessary or incidental to our RFP for the Project _____ (name of the Project), including signing and submission of the RFP response, participating in the meetings, responding to queries, submission of information or documents and generally to represent us in all the dealings with Client or any other Government Agency or any person, in connection with the works until culmination of the process of bidding till the Project Agreement is entered into with _____ (Client) and thereafter till the expiry of the Project Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney pursuant to this power of attorney and that all acts, deeds and things done by our aforesaid Attorney shall and shall always be deemed to have been done by us.

(Add in the case of a Consortium)

Our firm is a Member or Lead bidder of the Consortium of _____,
_____ and _____.

Dated this the _____ day of _____ 2018

(Signature and Name of authorized signatory)

(Signature and Name in block letters of all the remaining partners of the firm Signatory for the Company)

Seal of firm Company

Witness 1:

Witness 2:

Notes:

- a. *To be executed by all the members individually.*
- b. *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.*
- c. *In case the Proposal is signed by an authorized director of the Bidder, a certified copy of the appropriate resolution/ document conveying such authority may be enclosed in lieu of the power of attorney.*

Notes:

- a. To be executed by all the members individually, in case of a Consortium/Joint Venture.*
- b. 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.*

8.6. Bidder Profile

A. Brief Bidder profile (required for Bidder/Lead Bidder and all consortium members)

| # | Particulars | Description or details |
|-----|--|------------------------|
| 1. | Name of Bidder | |
| 2. | Legal status of Bidder (company, Pvt. Ltd., LLP etc.) | |
| 3. | Main business of the Bidder | |
| 4. | Registered office address | |
| 5. | Incorporation/Registration date and number | |
| 6. | GST registration number | |
| 7. | PAN details | |
| 8. | Primary Contact Person (Name, Designation, address, mobile number, fax, email) | |
| 9. | Secondary Contact Person (Name, Designation, address, mobile number, fax, email) | |
| 10. | EMD Details | |
| 11. | Role in Consortium (if applicable) | |

B. Certificate of Incorporation/Registration

C. PAN Card No

D. GST Registration No

E. Shareholding of the Bidder, if applicable

F. List of Directors/Partners

G. Particulars 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:

8.7. Certificate for the Annual Turnover

<<Required for lead bidder/sole bidder and each member of the consortium>>

This is to certify that as per the audited financial statements of <<name of the bidder>>, the annual turnover is as follows:

| # | Financial Year | Annual Turnover (Rs Crore) |
|---|------------------------|----------------------------|
| 1 | Financial Year 2014-15 | |
| 2 | Financial Year 2015-16 | |
| 3 | Financial Year 2016-17 | |

Name of the Statutory Auditor /Practicing Chartered Accountant issuing the certificate:

Name of the Firm:

Seal of Firm:

Date:

(Signature, name and designation of the authorized signatory for the Auditor's Firm)

Note:

- *The Bidder shall attach copies of the balance sheets, financial statements and audited annual reports for each of the Financial Years mentioned above. The financial statements shall:*
 - a. *reflect the turnover of the Bidder;*
 - b. *be audited by a statutory auditor/Practicing Chartered Accountant;*
 - c. *be complete, including all notes to the financial statements.*

- *In case the financial year in the Bidder's country is the calendar year, the Bidder shall submit above financial information for years 2014, 2015, 2016 and 2017.*

- *In case Bidder is claiming International Turnover, the amount shall be converted to USD and then to INR based on the RBI rates as per April 1, 2018*

8.8. Certificate for the Net Worth

| Financial Year | Net Worth (Rs Crore) |
|---|----------------------|
| 2016-17 | |
| <p>Certificate from the Statutory Auditor/Practicing Chartered Accountant This is to certify that..... [<i>Name of the Firm</i>] [<i>Registered Address</i>] has a net worth as shown above against the respective years. The net worth has been computed as (Subscribed and Paid up Equity + Reserves) less (Revaluation Reserves + miscellaneous expenditure not written off).</p> <p>Name of Authorized Signatory:</p> <p>Designation:</p> <p>Name of firm: (Signature)</p> <p>Seal of firm:</p> | |

8.9. Certificate for the Annual Turnover from Smart Element related projects

<<Required for lead bidder/sole bidder and each member of the consortium>>

This is to certify that as per the audited financial statements of <<name of the bidder>>, the annual turnover from smart element related projects* is as follows:

| # | Financial Year | Annual Turnover from Smart Element related projects (Rs Crore) |
|---|------------------------|--|
| 1 | Financial Year 2014-15 | |
| 2 | Financial Year 2015-16 | |
| 3 | Financial Year 2016-17 | |

Name of the auditor /Practicing Chartered Accountant issuing the certificate:

Name of the Firm:

Seal of Firm:

Date:

(Signature, name and designation of the authorized signatory for the Auditor's Firm)

Note:

- *The Bidder shall attach copies of the balance sheets, financial statements and audited annual reports for each of the Financial Years mentioned above. The financial statements shall:

 - a. *reflect the turnover of the Bidder;*
 - b. *be audited by a statutory auditor;*
 - c. *be complete, including all notes to the financial statements.**

- *In case the financial year in the Bidder's country is the calendar year, the Bidder shall submit above financial information for years 2014, 2015, 2016 and 2017.*

- *In case Bidder is claiming International Turnover, the amount shall be converted to USD and then to INR based on the RBI rates as per April 1, 2018.*

* Smart elements refer to

Smart Elements Projects includes

- Command & Control Centre
- City Surveillance System
- Intelligent Solid Waste Management System
- Adaptive Traffic Signal Control System
- Traffic Violation Detection System
- E-Governance/ ERP
- Wi-Fi Hotspots
- Environmental Sensors
- Public Address System
- Variable Messaging Signboards
- Smart Data Center/Disaster Recovery Center Projects
- Smart Classrooms

8.10. Bidder Standing

Declaration of Non-Blacklisting

<<To be provided by Sole Bidder/Lead Bidder, Consortium Member, Sub Contractor and OEMs>>

(On a Stamp Paper of Rs 100 and duly notarised)

Affidavit

I M/s., (the name of the Bidder/Contractor/Sub-contractor/OEM) and addresses of the registered office) hereby certify and confirm that we are not barred or blacklisted by any Central / State Government Department or Central / State PSUs globally from participating in any project or being awarded any contract, either individually or as member of a consortium and no such bar or blacklisting subsists as on the Proposal Due Date.

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the term of the Contract.

Dated thisDay of, 201....

NAME OF THE BIDDER/CONTRACTOR/SUB-CONTRACTOR/OEM

.....

SIGNATURE OF THE AUTHORISED PERSON

.....

NAME OF THE AUTHORISED PERSON

8.11. Bidder Local Presence

(On the letterhead of the Sole Bidder/Lead Bidder in case of a consortium)

I M/s., (the name of the Bidder/Contractor/Sub-contractor/OEM and addresses of the registered office) hereby confirm that we already have a local office at Rourkela with GST No. <<insert.>> and registered address <<insert>>.

OR

I M/s., (the name of the Bidder/Contractor/Sub-contractor/OEM and addresses of the registered office) hereby confirm that we shall establish a local office with warehouse facility within 60 days from issuance of Letter of Award.

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the term of the Contract.

Dated thisDay of, 201....

NAME OF THE BIDDER

.....

SIGNATURE OF THE AUTHORISED PERSON

.....

NAME OF THE AUTHORISED PERSON

<<In case the Bidder has a local office, address along with the GST registration number should be provided>>

8.12. Project Experience Summary

| # | Category | Project Name | Client Name | Client Type | Project Value (in Indian Rupees) | Project Components | Documentary evidence provided (Yes/No) | Project Status (Completed or Ongoing or Withheld) |
|---|----------|--------------|-------------|-------------|----------------------------------|--------------------|--|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

8.13. Bidder's Experience – Client Citations

Prime Bidder or Consortium member is requested to furnish the credentials in the following format for both Pre-qualification and Technical criterion. All credentials should be substantiated by relevant documentary proof.

| | |
|---|--|
| Name of the Project & Location | |
| Client's Name and Complete Address | |
| Narrative Description of the Project | |
| Contract Value for the Bidder (in Indian Rupees) | |
| Date of Start | |
| Date of Completion | |
| Activities undertaken by prime bidder or consortium member | |

Note: If the project is ongoing, bidder must clearly specify which of the stages/phases/milestones are completed and which are ongoing and at what stage of completion and produce a self-certificate as per the format provided in Section 8.14.

8.14. Self-Certificate for Project execution experience (In Bidding Entity's Letter Head)

This is to certify that <Name of the Bidding entity> has been awarded with < Name of the Project > as detailed under:

| | |
|---|--|
| Name of the Project | |
| Client's Name, Contact No. and Complete Address | |
| Contract Value for the Bidder (in Indian Rupees) | |
| Current status of the project (Completed/Ongoing) | |
| Detailed description of the Project | |
| Activities completed by the bidding entity as on bid submission date <i>(N.B Only relevant activities as sought in the Criteria to be included)</i> | |
| Value of work completed for which payment has been received from the Client | |
| Date of Start | |
| Date of Completion | |

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the term of the Contract.

Dated thisDay of, 201....

(Authorized Signatory)

Signature:

Name:

Designation:

Bidding entity's name

Address:

Seal:

Date:

8.15. No Deviation Certificate

<<On the Letter Head of the Bidder/Lead Bidder in case of a Consortium>>

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including amendments) no. _____ dated _____. This is to expressly certify that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements, Functional Requirements Specification, and Technical Requirements Specification) or Commercial in either direct or indirect form.

(Authorised Signatory)

Signature:

Name:

Designation:

Address:

8.16. Total Responsibility Certificate

This is to certify that we undertake the total responsibility for the timely implementation and defect free operation of the proposed solutions as per the requirement of the RFP for the duration mentioned in all the volumes of the RFP. We confirm that our bid considers the requisite items/components/solutions in appropriate quantities to fulfil the RFP and project requirements in totality.

(Authorized Signatory)

Signature:

Name:

Designation:

Address:

Seal:

Date:

8.17. Undertaking from subsidiary of the Lead Bidder

<<On the Letter Head>>

This is to certify that <<name of the company>> with registered office at <<registered address>> is 100% subsidiary of <<name of the company>> with registered office at <<registered address>>. We shall be placing the following experts for the purpose of this assignment:

| # | Name of the Expert | Academic Qualifications | Proposed Position | Details of the project used as credential to meet the PQ criteria |
|---|--------------------|-------------------------|-------------------|---|
| | | | | |
| | | | | |
| | | | | |

(Authorised Signatory)

Signature:

Name:

Designation:

Address:

Note: Please attach resolution of Board of Directors/Power of Attorney for the authorized signatory

9. Annexure 3 – Formats for Submission of the Technical Bid

9.1. Technical Bid Checklist

| # | Checklist Item | Compliance (Yes/No) | Page No, and Section No. in Bid |
|-----|---|---------------------|---------------------------------|
| 1. | Technical Bid Letter | | |
| 2. | Certificate for the Annual Turnover | | |
| 3. | Certificate for the Net Worth | | |
| 4. | Certificate from the authorised signatory with regard to Employees in ICT projects | | |
| 5. | Project Experience Summary | | |
| 6. | Project Citations, Client Completion Certificate and Self-certifications, as applicable | | |
| 7. | Approach & Methodology | | |
| 8. | Demonstration of Use Cases | | |
| 9. | Project plan and manpower plan | | |
| 10. | Proposed CVs | | |
| 11. | Proposed Bill of Material | | |
| 12. | Manufacturers'/Producers' Authorization Form | | |
| 13. | List of Proposed Sub-Contractors (if applicable) | | |
| 14. | Anti-Collusion certificate | | |
| 15. | Non-disclosure agreement | | |

*Page No. shall be as per Bidder's proposal

9.2. Technical Bid Covering Letter

Date:

dd/mm/yyyy

To,

[]

Subject: Request For Proposal for Selection of **Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**

Ref: RFP No. <<.....>> dated <<>>

Dear Sir,

I (in case of single bidder) or We, <<name of the undersigned lead Bidder and consortium members>>, having read and examined in detail all the bidding documents in respect of “**Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**” do hereby propose to provide our services as specified in the bid submitted by us.

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

We declare that all the services shall be performed strictly in accordance with the RFP documents.

We confirm that the information contained in this response or any part thereof, including its exhibits, and other documents and instruments delivered or to be delivered to the Client, is true, accurate, verifiable and complete. This response includes all information necessary to ensure that the statements therein do not in whole or in part mislead the Client in its evaluation process. We also confirm that we shall not attract conflict of interest in principle.

We hereby declare that in case the contract is awarded to us, we shall submit the contract Performance bank guarantee in the form prescribed at Annexure 5 (a) of Section 11 of the RFP Volume I.

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

We understand that our bid is binding on us and that you are not bound to accept a Bid you receive. This bid is valid for 180 days after opening of technical bid. We shall extend the validity of the bid if required by Client.

Thanking you,

Yours sincerely,

(Signature of the Lead Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

9.3. Bidder Profile

A. Brief Bidder profile (required for Bidder/Lead Bidder and all consortium members)

| # | Particulars | Description or details |
|-----|--|------------------------|
| 1. | Name of Bidder | |
| 2. | Legal status of Bidder (company, Pvt. Ltd., LLP etc.) | |
| 3. | Main business of the Bidder | |
| 4. | Registered office address | |
| 5. | Incorporation/Registration date and number | |
| 6. | GST registration number | |
| 7. | PAN details | |
| 8. | Primary Contact Person (Name, Designation, address, mobile number, fax, email) | |
| 9. | Secondary Contact Person (Name, Designation, address, mobile number, fax, email) | |
| 10. | Role in Consortium (if applicable) | |

B. Certificate of Incorporation/Registration

C. PAN Card

D. GST Registration

E. Shareholding of the Bidder, if applicable

F. List of directors

G. Particulars 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:

9.4. Certificate for the Annual Turnover

<<Required for lead bidder/sole bidder and each member of the consortium>>

This is to certify that as per the audited financial statements of <<name of the bidder>>, the annual turnover is as follows:

| # | Financial Year | Annual Turnover (Rs Crore) |
|---|------------------------|----------------------------|
| 1 | Financial Year 2014-15 | |
| 2 | Financial Year 2015-16 | |
| 3 | Financial Year 2016-17 | |

Name of the CA issuing the certificate:

Name of the Firm:

Seal of Firm:

Date:

(Signature, name and designation of the authorized signatory for the Auditor's Firm)

Note:

- *The Bidder shall attach copies of the balance sheets, financial statements and audited annual reports for each of the Financial Years mentioned above. The financial statements shall:

 - a. *reflect the turnover of the Bidder;*
 - b. *be audited by a statutory auditor;*
 - c. *be complete, including all notes to the financial statements.**

- *In case the financial year in the Bidder's country is the calendar year, the Bidder shall submit above financial information for years 2014, 2015, 2016 and 2017.*

- *In case Bidder is claiming International Turnover, the amount shall be converted to USD and then to INR based on the RBI rates as per April 1, 2018*

9.5. Certificate for the Net Worth

| Financial Year | Net Worth (Rs Crore) |
|---|----------------------|
| 2016-17 | |
| <p>Certificate from the Statutory Auditor/Practicing Chartered Accountant</p> <p>This is to certify that..... [<i>Name of the Firm</i>] [<i>Registered Address</i>] has a net worth as shown above against the respective years. The net worth has been computed as (Subscribed and Paid up Equity + Reserves) less (Revaluation Reserves + miscellaneous expenditure not written off).</p> <p>Name of Authorized Signatory:</p> <p>Designation:</p> <p>Name of firm: (Signature of the Chartered Accountant)</p> <p>Seal of firm:</p> | |

9.6. Personnel in IT projects

<<On the Letter Head of the Lead Bidder/Each member of the Consortium>>

This is to certify that the total number of staff employed in ICT projects as on bid submission date is <<insert number>>.

In case of a consortium please provide the total no. of staff employed in ICT projects as on bid submission date in the following table:

| SI. No. | Name of Firm | Lead Member/Consortium Partner | No. of Employees in ICT Projects |
|---------|--------------|--------------------------------|----------------------------------|
| | | | |
| | | | |
| | | | |

(Authorized Signatory)

Signature:

Name:

Designation:

Bidding entity's name

Address:

Seal:

Date:

9.7. Project Experience Summary

| # | Category | Project Name | Client Name | Client Type | Project Value (in Indian Rupees) | Project Components | Documentary evidence provided (Yes/No) | Project Status (Completed or Ongoing or Withheld) |
|----|----------|--------------|-------------|-------------|----------------------------------|--------------------|--|---|
| 1. | | | | | | | | |
| 2. | | | | | | | | |
| 3. | | | | | | | | |
| 4. | | | | | | | | |
| 5. | | | | | | | | |
| 6. | | | | | | | | |
| 7. | | | | | | | | |

- *Client type – Indicate whether the Client is Government or PSU or Private*
- *Project Components – Indicate the major project components like application development for security surveillance, command and control center, Maintenance, Hardware procurement and deployment, DC setup and maintenance, Facility management services, provisioning manpower, IT support and maintenance*
- *Documentary evidence provided – Indicate the documentary evidence provided with the detailed project credential like work order or purchase order or completion certificate or letter of appointment*
- *Project Status – Completed (date of project completion) or Ongoing (project start date)*

9.8. Bidder's Experience – Client Citations

Prime Bidder or Consortium member is requested to furnish the credentials in the following format for both Pre-qualification and Technical criteria. Credentials should be substantiated by relevant documentary proof.

| | |
|---|--|
| Name of the Project & Location | |
| Client's Name and Complete Address | |
| Narrative Description of the Project | |
| Contract Value for the Bidder (in Indian Rupees) | |
| Date of Start | |
| Date of Completion | |
| Activities undertaken by prime bidder or consortium member | |

Note: If the project is ongoing, bidder must clearly specify which of the stages/phases/milestones are completed and which are ongoing and at what stage of completion and produce a self-certificate as per the format provided in Section 9.9.

9.9. Self-Certificate for Project execution experience (In Bidding Entity's Letter Head)

This is to certify that <Name of the Bidding entity> has been awarded with < Name of the Project > as detailed under:

| | |
|---|--|
| Name of the Project | |
| Client's Name, Contact No. and Complete Address | |
| Contract Value for the Bidder (in Indian Rupees) | |
| Current status of the project (Completed/Ongoing) | |
| Detailed description of the Project | |
| Activities completed by the bidding entity as on bid submission date <i>(N.B Only relevant activities as sought in the Criteria to be included)</i> | |
| Value of work completed for which payment has been received from the Client | |
| Date of Start | |
| Date of Completion | |

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the term of the Contract.

Dated thisDay of, 201....

(Authorized Signatory)

Signature:

Name:

Designation:

Bidding entity's name

Address:

Seal:

Date:

9.10. Approach & Methodology

A description of the approach, methodology and work plan for performing the assignment, including a detailed description of the proposed methodology and staffing

The section should contain

- a) Understanding of the Project
- b) Technical Approach and Methodology. {Please explain your understanding of the objectives of the assignment as outlined in the Terms of Reference (TORs), the technical approach, and the methodology you would adopt for implementing the tasks to deliver the expected output(s), and the degree of detail of such output. Please do not repeat/copy the TORs in here.}
- c) Project Plan {Please outline the plan for the implementation of the main activities/tasks of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and tentative delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing your understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents (including reports) to be delivered as final output(s) should be included here. The work plan should be consistent with the Work Schedule Form.}
- d) *Organization and Staffing* {Please describe the structure and composition of your team, including the list of the Key Experts, Non-Key Experts and relevant technical and administrative support staff.}

Overall page limit should not exceed 20 A4 Sheets

9.11. Demonstration of Use Cases

Use Case 1: Solid Waste Management (5 Marks)

Devices/Systems: RFID Tags/Readers, GPS Device, attendance management system, GIS Mapping, Cameras, AI based Video Analytics, ICCC Platform

Component 1: Bin Tracking and Management (2 Marks)

Steps Involved

- RFID tag is installed on both sides of the bin of point of interest
- RFID reader installed on the collection vehicle of the point of interest, which shall read the Bin's RFID tag when the bin is lifted/attended confirming that the bin has been served
- AI based analytics provided alerts if there is any breach in process such as RFID brakeage etc.
- ICCC dashboard displays bin's served status through specific colour code (example: Green – Served / Red – Not Served) on the Map

Component 2: Littering in public area (0.5 Marks)

Steps Involved

- Garbage is littered over the point of interest.
- System is able to detect littering event in low light and background conditions.
- System automatically detects the littering event and generates details like location, time and event type.
- Alert and details are displayed at ICCC.
- Communication will be sent to the appropriate person for taking further action in accordance with Standard Operating Procedure (SOP).
- ICCC dashboard displays the analytics related to the littering in public area
 - Number of events occurred in a day with location.
 - Response time.

Component 3: Solid Waste Collection Vehicle Management (2 Marks)

Steps Involved

- Solid waste collection vehicle of point of interest shall be equipped with the On-Board GPS device unit which generates information related to the movement of the vehicle, identified by the vehicle type and registration details
- System shall detect and trigger an alert to ICCC when the vehicle does not follow the defined route
- Camera provided alerts using Edge AI for vehicle of interest in case of any deviation from route and location
- Alert will be published at ICCC for further processing and response SOP
- ICCC dashboard displays the real time information of the movement of the vehicles on map

Component 4: Field staff Attendance Management (0.5 Marks)

Steps Involved

- Camera recognized the face of person
- Alert generated and send to Data base
- Attendance marked and report generated of absent employee.
- The mobile device shall be integrated with the fingerprint device for capturing the biometric attendance
- When the field staff of point of interest puts the finger on the biometric device for attendance, the system records the timing and geo-location of the attendance, matches the finger print from the

enrolled fingerprint data and subsequently shows present status against the name of the field staff on the ICCC dashboard

Use Case 2: Traffic Management (5 Marks)

Devices/Systems: Cameras, GIS, Video Management System, Artificial Intelligence /Edge Analytics, Traffic violation detection module, ICCC

Component 1: Traffic violation detection Cameras using Artificial intelligence with min 75% accuracy (2 Marks)

Steps Involved

Vehicles violates traffic signal.

- System automatically detects the following type of traffic violations and populates alerts
 - Red light violation
 - Wrong way driving
 - Free Left Lane Blocking Violation
 - Illegal parking at junction
- System automatically identifies the number plate details and populates details like
 - Vehicle number
 - Vehicle number recognition status
 - Blacklist/whitelist/watch list
 - Date and time
 - Geo location
- System generates the e-challan with details like
 - Vehicle number
 - Vehicle number recognition status
 - Blacklist/whitelist/watch list
 - Date and time
 - Geo location
 - Video evidence
- ICCC dashboard displays the analytics
 - Alert based Generated by AI software with accuracy
 - Reports such as Number of violations with location, response time to generate challan

Component 2: Object Tracking and Classification using artificial intelligence with improvement in accuracy (2 Marks)

Steps Involved

- Over the command center Operator defines the Object of Interest for: Example Black Color Car or Person wearing Red Shirt to be tracked and traced for a given time line and geo location/group of cameras using AI system.
- System accepts the defined search criteria and search for the same across the video stored in VMS using iVA with continuous improvement.
- System automatically detects the object of interest and provide the detailed report.
- System will display the Geo spatial view of the Object location.
- System will allow user to click on the report to play the Object of interest's video.
- ICCC dashboard displays the analytics related to object of interest.
 - Number of times it appeared in time frame.
 - Number of geo locations the object appeared.
 - Allow user to create and see the entire movement of object across different cameras for given time line (Scene replay with time line).

Component 3: Information Dissemination via VaMS/PAS (1 Marks)

Steps Involved

- The system detects an accident or an accident is reported to ICCC
- The operator at the ICCC examines the location, time and event type over ICCC at the place of the accident.
- As per the urgency of the situation and based on the pre-defined escalation matrix, the operator alerts emergency services
- The operator notifies citizen via VaMS stating about the accident and advising the traffic to avoid the route.
- The ICCC operator makes announcements via PAS at the immediate junctions leading to the accident spot and advice for rerouting.

Use Case 3: Safety and Surveillance (5 Marks)

Devices/Systems: Cameras, GIS, Video Management System, Intelligent Video Analytics, Edge Analytics, Mobile Applications

Component 1: Accident / Crowd Gathering Alert using Artificial Intelligence (3 Marks)

Steps Involved

- Over the road at point of interest, people gather and crowd is formed.
- Field camera feed using AI automatically detects the crowd formation over the point of interest and automatically generates event related to crowd gathering with details like location, time and event type over ICCC.
- System detects people movement across area of interest, automatically counts the people passed by in given direction.
- At ICCC operator get to see the count details for given point of interest.
- ICCC dashboard displays details of the event, operator can escalate the event to Incident for taking further action as per SOP.
- Further as part of the SOP the ICCC operator alerts the local police station to take further action.
- Operator at ICCC selects the Public Address system layer, locates nearest PA system to the location where crowd is gathered.
- Further ICCC Operator clicks on the PA system button and announces message to public alerting to disburse from the place.
- ICCC dashboard displays the analytics related to the crowd gathering
 - Number of events occurred in a day with location
 - Response time

Component 2: Abandoned Object Alert (2 Marks)

Steps Involved

- At the area of interest citizen abandons an object.
- Field camera feed using AI automatically detects abandoned object and ICCC operator gets an alert over command center screen specifying the details.
- Same time citizen on street notices the abandoned object over street, he walks to nearest e-Kiosk to report same to command center
- Citizen pushes the panic/call button of e-Kiosk and inform command center operator about the abandoned object.
- Operator could see the called party through the PTZ camera installed above the e-Kiosk, operator collects relevant details and creates an incident related to abandoned object reporting.
- Operator at ICCC notice that already the system had automatically created event related to abandoned object.
- Operator at ICCC raises the event to Unidentified Object Incident and triggers the SOP for same.

- As part of SOP ICCC operator send alerts over email/SMS to nearest police station and fire station about the abandoned object.
- Police/Fire department person arrives at field location of abandoned object, verifies the same and ensures it is not harmful element.
- Police uses mobile command center to update the status of the incident.
 - ICCC dashboard displays the analytics related to the number of events/ incidents that were related to public safety for given day/week/month.

Use Case 4: Municipal Use Cases (5 Marks)

Devices/Systems: Cameras, GIS, Video Management System, AI Based Video Analytics, Public Address System, ICCC Platform

Component 1: Nuisance due to Stray Animals (like cows and horse) over Major Junction (3 Marks)

Steps Involved

- Presence of stray animals over the point of interest.
- System automatically detects the object type over the road in the point of interest and automatically generates event nuisance due to stray animal with details like location, time and event type over ICCC.
- At ICCC operator get to see the details of the event, operator can escalate the event to Incident for taking further action as per SOP.
- ICCC dashboard displays the analytics related to the Nuisance due to stray animals at Major Junction
 - Number of events occurred in a day with location.
 - Response time.

Component 2: Construction and Demolition Material Dumping (2 Marks)

Steps Involved

- Vehicle carrying construction and demolition materials enters the area.
- Vehicle dumps the materials and move away.
- System automatically detects the event and generates alert for demolished material dumping with details like location, time and event type over ICCC.
- At ICCC operator get to see the details of the event, operator can escalate the event to Incident for taking further action.
- ICCC dashboard displays the analytics related to the demolished material dumping.
 - Number of events occurred in a day with location.
 - Response time.

9.12. Project Plan

A **Detailed Project Plan** covering break-up of each phase into the key activities, along with the start and end dates must be provided as per format given below.

| Activity-wise Timelines | | | | | | | |
|--------------------------------|-----------------------------------|--------------------|---|---|---|---|-----|
| # | Detailed Work Breakdown Structure | Month wise Program | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | ... |
| | Project Plan | | | | | | |
| 1 | Activity 1 | | | | | | |
| 1.1 | Sub-Activity 1 | | | | | | |
| 1.2 | Sub-Activity 2 | | | | | | |
| 2 | | | | | | | |
| 2.1 | | | | | | | |
| 2.2 | | | | | | | |
| 3 | | | | | | | |
| 3.1 | | | | | | | |
| 4 | | | | | | | |

Note: The above activity chart is just for the purpose of illustration. Bidders are requested to provide detailed activity & phase wise timelines for executing the project with details of deliverables & milestones as per their bid.

9.13. Manpower Plan

I. Till Go-Live (Implementation)

| Manpower-wise Timelines | | | | | | | | | |
|--------------------------------|---|---|---------|---------|-----|-----|---------|-------|---------|
| # | Role | Month wise time to be spent by each personnel (in days) | | | | | | Total | |
| | | Month 1 | Month 2 | Month 3 | ... | ... | Go-Live | | |
| 1. | Project Director | | | | | | | | Onsite |
| | | | | | | | | | Offsite |
| 2. | Project Manager | | | | | | | | Onsite |
| 3. | Solution Architect | | | | | | | | Onsite |
| 4. | Network Architect | | | | | | | | Onsite |
| 5. | Security Architect | | | | | | | | Onsite |
| 6. | Command & Communications/ Control Center Expert | | | | | | | | Onsite |
| 7. | ITMS Expert | | | | | | | | |
| 8. | IoT Expert | | | | | | | | Onsite |
| 9. | QA Manager | | | | | | | | Onsite |
| 10. | Master Trainer | | | | | | | | Onsite |
| 11. | <Add more rows as required> | | | | | | | | Onsite |
| Total | | | | | | | | | |

9.13.1. Summary of Resources Proposed

| # | Name of the Resource | Proposed Role | Highest Degree | Basic Qualification (e.g., B.Sc. or BE or MCA or Post Graduation) | Certifications (e.g., PMP or ITIL or TOGAF or CCNP etc.) | Total Experience (In Years) |
|-----|----------------------|---------------|----------------|---|--|-----------------------------|
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| 10. | | | | | | |

II. After Go-Live (Operation & Maintenance)

| Manpower-wise Timelines | | | | | | | |
|--------------------------------|-----------------------------|--------|--------|--------|--------|--------|----------------|
| # | Manpower Detailed Breakup | Years | | | | | Total |
| | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | |
| 1. | | | | | | | Onsite/Offsite |
| 2. | | | | | | | Onsite/Offsite |
| 3. | | | | | | | Onsite/Offsite |
| 4. | | | | | | | Onsite/Offsite |
| 5. | | | | | | | Onsite/Offsite |
| 6. | | | | | | | Onsite/Offsite |
| 7. | | | | | | | Onsite/Offsite |
| 8. | | | | | | | Onsite/Offsite |
| 9. | <Add more rows as required> | | | | | | Onsite/Offsite |
| Total | | | | | | | |

9.14. Details of Resources Proposed for Operations and Maintenance Period

9.14.1. Summary of Resources Proposed

| # | Name of the Resource | Proposed Role | Highest Degree | Basic Qualification (e.g., B.Sc. or BE or MCA or Post Graduation) | Certifications (e.g., PMP or ITIL or TOGAF or CCNP etc.) | Total Experience (In Years) |
|-----|----------------------|---------------|----------------|---|--|-----------------------------|
| 1. | | | | | | |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. | | | | | | |
| 5. | | | | | | |
| 6. | | | | | | |
| 7. | | | | | | |
| 8. | | | | | | |
| 9. | | | | | | |
| 10. | | | | | | |

9.15. Curriculum Vitae (CV) of Team Members

| Name | | | | | |
|--|---|--|---|-----------------|-----------------|
| 1. | Proposed position or role | <i>(only one candidate shall be nominated for each position)</i> | | | |
| 2. | Date of Birth | | Nationality | | |
| 3. | Education | Qualification | Name of School or College or University | Degree Obtained | Year of Passing |
| | | | | | |
| | | | | | |
| | | | | | |
| 4. | Language Skills | | | | |
| | | Language | Speaking | Reading | Writing |
| | | English | | | |
| | | Odiya | | | |
| | | Others (Please Specify) | | | |
| 5. | Years of Experience | | | | |
| 6. | Areas of expertise and no. of years of experience in this area | <i>(as required for the Profile)</i> | | | |
| 7. | Certifications and Trainings attended | | | | |
| 8. | Employment Record | Employer | Position | From | To |
| | | | | | |
| | | | | | |
| | | | | | |
| <i>[Starting with recent position and last 2 firms, list in reverse order, giving for each employment: dates of employment, name of employing organization, positions held.]</i> | | | | | |
| 9. | Detailed Tasks Assigned | <i>(List all tasks to be performed under this project)</i> | | | |
| 10. | Relevant Work Undertaken that Best Illustrates the experience as required for the Role | | | | |
| Project # | | | | | |
| Name of assignment | | | | | |

| | |
|-----------------------|--|
| Year | |
| Location | |
| Employer | |
| Main project features | |
| Position held | |
| Activities performed | |
| | |

Note: CVs should not exceed more than 5 A4 sheets

9.16. Undertaking regarding availability of key expert

To,
Chief Executive Officer,
Rourkela Smart City Limited,

Dated:

Dear Sir,

Sub: Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela

We refer to the RFP dated [●] issued by you for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela.

We, M/s [**Insert name of the Bidder**] confirm that the Key Experts named below are the employees of the <<Insert name of the bidder>> on the proposal due date:

1.
2.
3.

Further we, M/s [**Insert name of the Bidder**] confirm that the Key Experts named below:

1.
2.
3.
4.

have authorized us to use their technical experience and submit their name as a Key Expert for this Proposal and Project.

If selected as the successful Bidder, we undertake that the Key Experts mentioned above would be available and will provide their best services for the duration of the Contract, in accordance with the terms of the RFP and the Contract.

We further confirm that we are aware our Proposal for the Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this undertaking at any stage of selection and/or thereafter during the term of the Contract.

Dated thisDay of, 201....

Name of the Bidder

.....

Signature of the Authorised Person

.....

Name of the Authorised Person

Date:

Place:

9.17. Proposed Bill of Material

The list of items mentioned hereunder is indicative. The Bidder shall consider the components and quantity to fulfil the RFP and project requirements in totality. The bidder should also indicate the make and model number for items/ components where the same is applicable and for which the Manufacturer's/ Producer's Authorization form has been provided

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of spare and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|--|--|---------------------|--|----------------|---|
| Integrated Command and Control Center | | | | | |
| 1 | Video wall (70" in 5*3 configuration) | Unit | 1 | | |
| 2 | Video Wall Controller | Nos. | 2 | | |
| 3 | Video Wall Management Software | Nos. | 1 | | |
| 4 | Cabling & Other Fixtures | Lot | 1 | | |
| 5 | Keyboard Joystick to control PTZ Cameras | Nos. | As per requirement | | |
| 6 | Access Switch | Nos. | 4 | | |
| 7 | LED TV 55" | Nos. | 10 | | |
| 8 | Public Address System | Set | 2 | | |
| 9 | Audio Mixer and speaker system | Set | 6 | | |
| 10 | Monitoring Workstation with three monitors | Nos. | 20 | | |
| 11 | Online UPS (sizing as per proposed solution) | Nos. | As per requirement | | |
| 12 | Multifunction Printer | Nos. | 2 | | |
| 13 | IP Phones | Set | As per requirement | | |
| 14 | Video Conferencing software and solution | Set | 1 | | |
| 15 | Network Colour Laser printer | Nos. | 6 | | |
| 16 | Network B/W Laser Printer (Heavy Duty) | Nos. | 6 | | |
| 17 | Biometric access control system | Nos. | 10 | | |
| 18 | Dome cameras for internal surveillance | Nos. | 10 | | |
| 19 | Fire Alarm System | Set | 1 | | |
| 20 | Rodent Repellent system | Set | 2 | | |
| 21 | Split Air Conditioner (5 star energy efficiency rating) | Nos. | As per requirement | | |
| 22 | Site Preparation as per the RFP | Lump sum | As per requirement | | |
| 23 | Workstation Furniture, Fixtures and Ergonomic Chairs for ICC | Set | 20 | | |
| 24 | Revolving Chairs for office staff | Nos. | 80 | | |
| 25 | Office Desk Furniture and Fixtures | Nos. | 80 | | |
| 26 | Meeting Room Table and Chairs Set (for 10 personnel) | Set | 8 | | |
| 27 | Multiparty Conference Unit (20 People) | Set | 3 | | |
| 28 | Smart Phones | Set | 60 | | |
| 29 | Tablets | Set | 10 | | |
| 30 | Workstation for mgmt. staff with OS | Nos | 30 | | |
| 31 | Laptops | Nos. | 10 | | |
| 32 | Desktops for Support Staff | Nos. | 40 | | |

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of sparse and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|-------------------------|---|---------------------|---|----------------|---|
| Data Centre (DC) | | | | | |
| 1 | Core Router | Nos | 2 | | |
| 2 | Internet Routers | Nos | 2 | | |
| 3 | Core Switches | Nos | 2 | | |
| 4 | Firewall (NGFW) (Internet and Intranet) | Nos | 4 | | |
| 5 | Intrusion Prevention System | Nos | 2 | | |
| 6 | WAF (Web Application Firewall) | Nos | 2 | | |
| 7 | 42 U Network Rack (Intelligent-Rack) | Nos | 8 | | |
| 8 | KVM Switch with Monitor | Nos | 2 | | |
| 9 | Server load balancer | Nos | 2 | | |
| 10 | Blade Chassis | Nos | 4 | | |
| 11 | Blade Server | Nos | 28 | | |
| 12 | AI and Continuous Learning Server (including Software) | Nos | 2 | | |
| 13 | NAS/SAN/Scalable NAS Storage | Size | 1 PB | | |
| 14 | Workstation for mgmt. staff with OS | Nos | 5 | | |
| 15 | Tape Library | Nos | 2 | | |
| 16 | IP EPABX | Nos | 1 | | |
| 17 | DDOS | Nos | 2 | | |
| 18 | SAN Switch | Nos | 2 | | |
| 19 | Access/Edge Switch | Nos | 8 | | |
| 20 | IP: Network Video Recorder | Nos | 2 | | |
| 21 | Access Control System | Lot | 1 | | |
| 22 | Backup Software | Lot | 1 | | |
| 23 | Enterprise Management System (including SLA Mngt, Help Desk Mngt, Network Mngt, BMS) | Lot | 1 | | |
| 24 | DB License | Lot | 1 | | |
| 25 | Server OS License | Nos | 20 | | |
| 26 | OS CA License | Nos | 50 | | |
| 27 | Waste Management Application | Lot | 1 | | |
| 28 | CoSiCoSt application as per requirements provided in the RFP with Server and (n+1) Redundancy | Lot | 1 | | |
| 29 | TRAMM application | Lot | 1 | | |
| 30 | ANPR Application | Lot | 1 | | |
| 31 | TVDS Application | Lot | 1 | | |
| 32 | E Challan Application | Lot | 1 | | |
| 33 | VaMS Application | Lot | 1 | | |
| 35 | Environment Management Application (EMS) | Lot | 1 | | |
| 35 | Automatic Call Distributor Application | Lot | 1 | | |
| 36 | Digital Voice Logger Application | Lot | 1 | | |
| 37 | PAS Application | Lot | 1 | | |
| 38 | GIS Application Server License | Lot | 1 | | |
| 39 | GIS Application desktop License | Lot | 1 | | |
| 40 | Video Management Application (VMS+VA) | Lot | 1 | | |
| 41 | Virtualization Software License | Nos | as per requirement | | |

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of spare and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|----|--|---------------------|--|----------------|---|
| 42 | Mail & Messaging application | Lot | 1 | | |
| 43 | Wi-Fi Application | Lot | 1 | | |
| 44 | ICCC core application | Lot | 1 | | |
| 45 | IOT Platform License | Lot | 1 | | |
| 46 | SOA Integration middleware | Lot | 1 | | |
| 47 | SMS Gateway with annual 2,00,000 SMSs | Lot | 1 | | |
| 48 | Web Server License | Lot | 1 | | |
| 49 | Content Management Software | Lot | 1 | | |
| 50 | DLP Server + 50 Cal license | Lot | 1 | | |
| 51 | Application and Data Encryption | Lot | 1 | | |
| 52 | Secure Email Gateway | Lot | 1 | | |
| 53 | Anti-virus Software for Application (1-Server + 50-Cal) | Nos | 50 | | |
| 54 | ADC/DC Application , LDAP Server | Lot | 1 | | |
| 55 | Edge AI analytics software (Enterprise License) | Channel | 4500 | | |
| 56 | SIEM (HA) | Lot | 1 | | |
| 57 | AAA | Nos. | 1 | | |
| 58 | Advanced Persistent Threat (APT) | Nos. | 2 | | |
| 59 | Web and Content Filtering software | Nos. | 1 | | |
| 60 | HVAC System (2 Ton in Redundant mode) | Nos | 2 | | |
| 61 | Fire Alarm & Suppression System | Nos | 2 | | |
| 62 | Physical security information management (PSIM) Application (may use customized or cots application) | Nos | 1 | | |
| 63 | Rodent Repellent System | Nos | 2 | | |
| 64 | Indoor Fixed Dome Cameras set | Nos | 10 | | |
| 65 | Fire Proof Enclosure for Media Storage | Nos | 1 | | |
| 66 | Diesel Generator | Nos | as per requirement | | |
| 67 | Auto Main failure(AMF) | Nos | as per requirement | | |
| 68 | Building Management System | Nos | 1 | | |
| 69 | UPS (Inline Power Backup) | Nos | as per requirement | | |
| 70 | Online UPS (sizing as per proposed solution) | Nos | as per requirement | | |
| 71 | Precision Air Conditioning System for the Server Farm Area | Nos | 4 | | |
| 72 | Split Air Conditioner for the Auxiliary Area | Nos | 4 | | |
| 73 | Site Preparation Cost | Lot | 1 | | |
| 74 | Networking Cost (Passive Components) | Lot | 1 | | |
| 75 | Weigh bridge integration with SWM Application | Lot | 1 | | |
| 76 | Kiosk Management Application | Lot | 1 | | |
| 77 | Helpdesk | | | | |
| a | IP Phone | Nos. | 9 | | |

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of spare and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|--|---|---------------------|--|----------------|---|
| b | Voice Logger | Nos. | 1 | | |
| c | Soft telephone | Nos. | 9 | | |
| d | Desktops | Nos. | 9 | | |
| e | Officer Furniture and Revolving Chair | Lot | 1 | | |
| Disaster Recovery (DR) Center | | | | | |
| 1 | DR Cost at 50% passive | | As per requirement | | |
| Safety and Surveillance | | | | | |
| 1 | Camera Fixed | Nos. | 304 | | |
| 2 | Camera PTZ Cameras | Nos. | 65 | | |
| 3 | IR Illuminator | Nos. | 369 | | |
| 4 | LPU with Edge Device | Nos. | 93 | | |
| 5 | Ruggedized/Industrial appliance with OS at field | Nos. | as per requirement | | |
| 6 | Mounting Rack (Industrial type) | Nos. | as per requirement | | |
| 7 | Gantry and Pole for Camera mounting with Fitting | Nos. | 369 | | |
| 8 | Ruggedized/Industrial Network Switch | Nos. | as per requirement | | |
| 9 | Junction box | Nos. | 93 | | |
| 10 | Rack Mounted LIU | Nos. | 93 | | |
| 11 | Network CAT6/6E cable | Nos. | as per requirement | | |
| 12 | UPS | Nos. | as per requirement | | |
| 13 | Power Cable | Nos. | as per requirement | | |
| Intelligent Waste Management System (IWMS) | | | | | |
| 1 | RFID Tags on Bins - 315 locations | Nos. | 630 | | |
| 2 | OBU for Tracking of SWM Vehicles and Cesspool Vehicles | Nos. | 14 | | |
| 3 | Vehicle Mounted RFID Reader | Nos. | 10 | | |
| 4 | Windshield RFID Tags for Vehicles | Nos. | 14 | | |
| 5 | RFID Reader at Weighbridge with Pole Mount | Nos. | 2 | | |
| 6 | Weigh Bridge Controller | Nos. | 2 | | |
| 7 | Boom Barrier | Nos. | 2 | | |
| 8 | Fixed Camera | Nos. | 4 | | |
| 9 | PTZ Camera | Nos. | 2 | | |
| 10 | Mobile device for Drivers | Nos. | 14 | | |
| 11 | Mobile with Biometric & GPRS enabled for Supervisors | Nos. | 30 | | |
| 12 | SIM Cards | Nos. | 55 | | |
| 13 | Driver Mobile Application | Nos. | 14 | | |
| 14 | Mobile Application for Supervisors | Nos. | 30 | | |
| 15 | Waste Management Mobile Application and Integration with Citizen Mobile App | Nos. | 1 | | |
| 16 | Static Weigh Bridge | Nos. | 2 | | |
| Adaptive Traffic Signal Control System (ATCS) | | | | | |
| 1 | Master Controller | Nos. | 29 | | |

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of spare and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|--|---|---------------------|--|----------------|---|
| 2 | Slave Controller | Nos. | 105 | | |
| 3 | Pelican Signal unit including poles, solar panel & battery, push button unit and control system for complete intersection | Nos. | 10 | | |
| 4 | Camera Based Vehicle Detectors | Nos. | 105 | | |
| 5 | 300 mm RED LEDs | Nos. | 210 | | |
| 6 | 300 mm Amber LEDs | Nos. | 210 | | |
| 7 | 300 mm Green Arrow LEDs | Nos. | 570 | | |
| 8 | 300 mm Pedestrian Green & Red LEDsi | Nos. | 62 | | |
| 9 | Countdown Timers | Nos. | 105 | | |
| 10 | Field, ruggedized, outdoor rated Layer-2 switch | Nos. | 29 | | |
| 11 | Solar Power System including Solar module, Solar charger and battery | Nos. | 29 | | |
| 12 | Solar Power System for Blinkers | Nos. | 15 | | |
| 13 | Blinker Controller | Nos. | 15 | | |
| 14 | 300 mm LED Aspect RED/AMBER for Blinker Signals | Nos. | 104 | | |
| 15 | Standard MS Pole | Nos. | 82 | | |
| 16 | Cantilever Pole | Nos. | 107 | | |
| 17 | Foundations – Standard Pole | Nos. | 82 | | |
| 18 | Foundations – Cantilever pole | Nos. | 107 | | |
| 19 | Standard MS Pole for Blinker Signals | Nos. | 104 | | |
| 20 | Foundations - Standard Pole (Blinker Signals) | Nos. | 104 | | |
| Traffic Violation Detection System (TVDS) | | | | | |
| 1 | ANPR Camera with IR illuminator | Nos. | 173 | | |
| 2 | Overview Camera with IR illuminator | Nos. | 105 | | |
| 3 | RLVD Sensor | Nos. | 105 | | |
| 4 | Local processing unit with Edge Device | Nos. | 29 | | |
| 5 | ANPR Camera for Left Lane Violation | Nos. | 28 | | |
| 6 | Field Device for e-Challan System | Nos. | 15 | | |
| 7 | Mounting structure with earthing and lightning arrestor | Nos. | 133 | | |
| 8 | Junction Box | Nos. | 191 | | |
| 9 | UPS | Nos. | 29 | | |
| 10 | Car Charger and Carry Case | Nos. | 15 | | |
| City Governance | | | | | |
| 1 | Integrated Business Process Management Services solution | Set | 1 | | |
| 2 | Citizen Mobile App | Set | 1 | | |
| 3 | City Kiosks Standalone | Nos. | 10 | | |
| 4 | Integrated Kiosk | Nos. | 10 | | |
| 5 | Ruggedized/Industrial Network Switch | Nos. | 20 | | |
| 6 | Migration of existing Data into New System | Lot | 1 | | |

| # | Items | Unit of Measurement | Quantity Proposed (exclusive of spare and consumables) | Make and Model | Proposed Quantity by Bidder as per their assessment |
|--|---|---------------------|--|----------------|---|
| 7 | PTZ Camera | Nos. | 10 | | |
| 8 | Thermal Printer | Nos. | 10 | | |
| 9 | Dot Matrix Printer | Nos. | 10 | | |
| 10 | Scanner | Nos. | 10 | | |
| 11 | UPS | Nos. | 20 | | |
| Other Smart Elements | | | | | |
| Environmental System | | | | | |
| 1 | Env Sensors | Nos. | 5 | | |
| 2 | Pole and mounting | Nos. | As per requirement | | |
| 3 | UPS | Nos. | 5 | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | 5 | | |
| 5 | Environment Application Integration with Citizen Mobile App | Nos. | 1 | | |
| Smart Wi-Fi | | | | | |
| 1 | Wi-Fi Router | Nos. | 13 | | |
| 2 | Access Points | Nos. | As per requirement | | |
| 3 | Ruggedized/Industrial Network Switch | Nos. | As per requirement | | |
| Variable Message Signboard (VaMS) | | | | | |
| 1 | VaMS system | Nos. | 13 | | |
| 2 | UPS | Nos. | 13 | | |
| 3 | Pole and mounting | Nos. | 13 | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | 13 | | |
| Public Address system (PAS) | | | | | |
| 1 | PAS system | Nos. | 29 | | |
| 2 | UPS | Nos. | 29 | | |
| 3 | Pole and mounting | Nos. | 29 | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | 29 | | |
| Smart Classroom | | | | | |
| 1 | Desktop Computer | Nos. | 15 | | |
| 2 | Interactive White Board | Nos. | 15 | | |
| 3 | UPS | Nos. | 15 | | |
| 4 | Audio System with Microphone | Nos. | 15 | | |
| 5 | Ultra Short-Throw Projector | Nos. | 15 | | |
| 6 | Fixed Camera | Nos. | 15 | | |
| 7 | Operating System – Windows 10 or Higher | Nos. | 15 | | |
| 8 | Antivirus | Nos. | 15 | | |
| 9 | Metallic Cabinet/Podium | Nos. | 15 | | |
| 10 | Network Equipment | Nos. | 15 | | |

9.19. List of Proposed Sub-contractors (if applicable)

| System/Sub-system/Item/Activity | Proposed Sub-contractor (Full Name & Address) |
|---------------------------------|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

9.20. Undertaking from sub-contractor

(On the letterhead of the subcontractor firm)

Letter No. _____ Date __/__/____

To,
Chief Executive Officer,
Rourkela Smart City Limited,

Ref: - Request For Proposal for Selection of Master System Integrator (MSI) for implementation of Smart Solutions in Rourkela

Sub: - Consent of association with _____ as sub-contractor for the referred RFP

Dear Sir,

1. I, the undersigned, confirm my agreement to associate with M/s (hereinafter referred to as “lead bidder”) as the “sub-contractor” to submit the proposal and work for the above-captioned project.

2. I authorize the lead bidder to include my company’s experience and expertise in the above referenced Project Proposal and / or forward my profile to the Client for the proposal and represent me on all contractual aspects of this proposal.

3. I confirm my interest and availability to work on the projects awarded, should the lead bidder be successful in the RFP.

4. I confirm that to the best of my belief and knowledge, I have not been blacklisted by any government / semi government body or donor agency.

Yours sincerely,
Authorised Signatory of the subcontractor

9.21. Anti-Collusion Certificate

[Certificate should be provided by Sole Bidder/Lead Bidder and on letter head]

Anti-Collusion Certificate

We hereby certify and confirm that in the preparation and submission of our Bid for **Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela** against the RFP issued by Client. We have not acted in concert or in collusion with any other Bidder or other person(s) and also not done any act, deed or thing, which is or could be regarded as anti-competitive. We further confirm that we have not offered nor will offer any illegal gratification in cash or kind to any person or organization in connection with the instant bid.

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

9.22. Non-Disclosure Agreement

WHEREAS, we the undersigned Bidder, _____, having our principal place of business or registered office at _____, are desirous of bidding for RFP No. <<>> dated <<DD-MM-2018>> “**Request for Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**” (hereinafter called the said 'RFP') to the “Rourkela Smart City Limited”, hereinafter referred to as 'Client'

And,

WHEREAS, the Bidder is aware and confirms that the Client's business or operations, information, application or software, hardware, business data, architecture schematics, designs, storage media and other information or documents made available by the Client in the RFP documents during the bidding process and thereafter, or otherwise (confidential information for short) is privileged and strictly confidential and or proprietary to the Client,

NOW THEREFORE, in consideration of disclosure of confidential information, and in order to ensure the Client's grant to the Bidder of specific access to Client's confidential information, property, information systems, network, databases and other data, the Bidder agrees to all of the following conditions.

It is hereby agreed as under:

1. The confidential information to be disclosed by the Client under this Agreement (“Confidential Information”) shall include without limitation, any and all information in written, representational, electronic, verbal or other form relating directly or indirectly to processes, methodologies, algorithms, risk matrices, thresholds, parameters, reports, deliverables, work products, specifications, architecture, project information, security or zoning strategies & policies, related computer programs, systems, trend analysis, risk plans, strategies and information communicated or obtained through meetings, documents, correspondence or inspection of tangible items, facilities or inspection at any site to which access is permitted by the Client.
2. Confidential Information does not include information which:
 - a. the Bidder knew or had in its possession, prior to disclosure, without limitation on its confidentiality;
 - b. information in the public domain as a matter of law;
 - c. is obtained by the Bidder from a third party without any obligation of confidentiality;
 - d. the Bidder is required to disclose by order of a competent court or regulatory Client;
 - e. Is released from confidentiality with the written consent of the Client.

The Bidder shall have the burden of proving hereinabove are applicable to the information in the possession of the Bidder.

3. The Bidder agrees to hold in trust any Confidential Information received by the Bidder, as part of the Tendering process or otherwise, and the Bidder shall maintain strict confidentiality in respect of such Confidential Information, and in no event a degree of confidentiality less than the Bidder uses to protect its own confidential and proprietary information. The Bidder also agrees:
 - a. to maintain and use the Confidential Information only for the purposes of bidding for this RFP and thereafter only as expressly permitted herein;

- b. to only make copies as specifically authorized by the prior written consent of the Client and with the same confidential or proprietary notices as may be printed or displayed on the original;
 - c. to restrict access and disclosure of Confidential Information to their employees, agents, consortium members and representatives strictly on a "need to know" basis, to maintain confidentiality of the Confidential Information disclosed to them in accordance with this clause; and
 - d. To treat Confidential Information as confidential unless and until Client expressly notifies the Bidder of release of its obligations in relation to the said Confidential Information.
4. Notwithstanding the foregoing, the Bidder acknowledges that the nature of activities to be performed as part of the Tendering process or thereafter may require the Bidder's personnel to be present on premises of the Client or may require the Bidder's personnel to have access to software, hardware, computer networks, databases, documents and storage media of the Client while on or off premises of the Client. It is understood that it would be impractical for the Client to monitor all information made available to the Bidder's personnel under such circumstances and to provide notice to the Bidder of the confidentiality of all such information.

Therefore, the Bidder shall disclose or allow access to the Confidential Information only to those personnel of the Bidder who need to know it for the proper performance of their duties in relation to this project, and then only to the extent reasonably necessary. The Bidder will take appropriate steps to ensure that all personnel to whom access to the Confidential Information is given are aware of the Bidder's confidentiality obligation. Further, the Bidder shall procure that all personnel of the Bidder are bound by confidentiality obligation in relation to all proprietary and Confidential Information received by them which is no less onerous than the confidentiality obligation under this agreement.

5. The Bidder shall establish and maintain appropriate security measures to provide for the safe custody of the Confidential Information and to prevent unauthorized access to it.
6. The Bidder agrees that upon termination or expiry of this Agreement or at any time during its currency, at the request of the Client, the Bidder shall promptly deliver to the Client the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information and promptly certify such destruction.
7. Confidential Information shall at all times remain the sole and exclusive property of the Client. Upon completion of the Tendering process and or termination of the contract or at any time during its currency, at the request of the Client, the Bidder shall promptly deliver to the Client the Confidential Information and copies thereof in its possession or under its direct or indirect control, and shall destroy all memoranda, notes and other writings prepared by the Bidder or its Affiliates or directors, officers, employees or advisors based on the Confidential Information within a period of sixty days from the date of receipt of notice, or destroyed, if incapable of return. The destruction shall be witnessed and so recorded, in writing, by an authorized representative of the Client. Without prejudice to the above the Bidder shall promptly certify to the Client, due and complete destruction and return. Nothing contained herein shall in any manner impair rights of the Client in respect of the Confidential Information.
8. In the event that the Bidder hereto becomes legally compelled to disclose any Confidential Information, the Bidder shall give sufficient notice and render best effort assistance to the Client to enable the Client to prevent or minimize to the extent possible, such disclosure. Bidder shall not disclose to a third party any Confidential Information or the contents of this RFP without the prior written consent of the Client. The obligations of this Clause shall be satisfied by handling

Confidential Information with the same degree of care, which the Bidder applies to its own similar Confidential Information but in no event less than reasonable care.

For and on behalf of:

(BIDDER)

Authorised Signatory

Name:

Designation:

Office Seal:

Place:

Date:

10. Annexure 4 – Formats for Submission of the Commercial Bid

10.1. Commercial Bid Covering Letter

Date:

Dd/mm/yyyy

To,

[]

Subject: Request for Proposal for Selection of **Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**

Ref: RFP No. <<.....>> **dated** <<>>

Dear Sir,

I (in case of single bidder) or We, <<name of the undersigned Bidder and consortium members>>, having read and examined in detail all the bidding documents in respect of “**Request For Proposal for Selection of Master System Integrator (MSI) for Implementation of Smart Solutions in Rourkela**” do hereby offer to provide our services. Our attached Commercial Bid is for the sum of [amount(s) in words and figures] which is inclusive of all taxes, levies and duties.

Our Commercial Bid shall be binding upon us subject to the modifications resulting from arithmetic correction, if any, up to expiration of the validity period of the Proposal, i.e. [date].

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely “Prevention of Corruption Act 1988”.

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

Thanking you,

Yours sincerely,

(Signature of the Lead Bidder)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

10.2. Total Price Summary

| # | Head | Amount (in Indian Rupees) | Amount (in words) |
|----|--|---------------------------|-------------------|
| 1. | Total CAPEX price (Inclusive of all taxes, levies, duties, etc. as applicable) | | |
| 2. | Total OPEX price (Inclusive of all taxes, levies, duties, etc. as applicable) | | |
| 3. | Total price (1+2) (Inclusive of all taxes, levies, duties, etc. as applicable) | | |

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10.3. CAPEX Summary Table

| # | Subsystems / Items | Description | Supply & Installation Prices (In Indian Rupees) |
|--------------------|---|--|---|
| 1. | Integrated Command and Control Center | From Capex Component of Price Sheet (Sub-Total of A) | |
| 2. | Data Center | From Capex Component of Price Sheet (Sub-Total of B) | |
| 3. | Disaster Recovery Center | From Capex Component of Price Sheet (Sub-Total of C) | |
| 4. | Safety and Surveillance | From Capex Component of Price Sheet (Sub-Total of D) | |
| 5. | Intelligent Waste Management System | From Capex Component of Price Sheet (Sub-Total of E) | |
| 6. | Adaptive Traffic Signal Control System | From Capex Component of Price Sheet (Sub-Total of F) | |
| 7. | Traffic Violation Detection System | From Capex Component of Price Sheet (Sub-Total of G) | |
| 8. | City Governance | From Capex Component of Price Sheet (Sub-Total of H) | |
| 9. | Environmental system | From Capex Component of Price Sheet (Sub-Total of I) | |
| 10. | Smart Wi-Fi | From Capex Component of Price Sheet (Sub-Total of J) | |
| 11. | Variable Message Signboard | From Capex Component of Price Sheet (Sub-Total of K) | |
| 12. | Public Address System | From Capex Component of Price Sheet (Sub-Total of L) | |
| 13. | Smart Classroom | From Capex Component of Price Sheet (Sub-Total of M) | |
| 14. | Software and service customization cost | From Capex Component of Price Sheet (Sub-Total of N) | |
| 15. | Training and Overall Project Management | From Capex Component of Price Sheet (Sub-Total of O) | |
| Grand Total | | | |

| | |
|---------------------------------|--|
| Name of Bidder: | |
| Authorized Signature of Bidder: | |

10.4. OPEX Summary Table

| # | Components | Year 1 (in Indian Rupees) | Year 2 (in Indian Rupees) | Year 3 (in Indian Rupees) | Year 4 (in Indian Rupees) | Year 5 (in Indian Rupees) | Total (Incl. of all taxes) |
|-----|---|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 1. | Integrated Command and Control Center | | | | | | |
| 2. | Data Center | | | | | | |
| 3. | Disaster Recovery Center | | | | | | |
| 4. | Safety and Surveillance | | | | | | |
| 5. | Intelligent Waste Management System | | | | | | |
| 6. | Adaptive Traffic Signal Control System | | | | | | |
| 7. | Traffic Violation Detection System | | | | | | |
| 8. | City Governance | | | | | | |
| 9. | Environmental system | | | | | | |
| 10. | Smart Wi-Fi | | | | | | |
| 11. | Variable Message Signboard | | | | | | |
| 12. | Public Address System | | | | | | |
| 13. | Smart Classroom | | | | | | |
| 14. | Software and service customization cost | | | | | | |
| 15. | Training and Overall Project Management | | | | | | |
| | Total OPEX Price | | | | | | |

| | |
|---------------------------------|--|
| Name of Bidder: | |
| Authorized Signature of Bidder: | |

Total OPEX Price in Indian Rupees (in words) -

Notes:

- The Commercial evaluation would however be done basing on the Net Present Value (NPV) concept for the entire contract period at a discount rate mentioned in bid data sheet.

Only as an Example,

| Bidders | CAPEX | OPEX Cost | | | | | Total Bid Price |
|------------|-------|-----------|-------|-------|-------|-------|-----------------|
| | | Yr. 1 | Yr. 2 | Yr. 3 | Yr. 4 | Yr. 5 | |
| Bidder 'X' | 343 | 30 | 31 | 32 | 32 | 32 | 500 |
| Bidder 'Y' | 325 | 30 | 34 | 35 | 37 | 39 | 500 |

Bid Evaluation (NPV Method): - (Discounting Rate = 10%)

$$\text{Bidder 'X'} = 343 + \frac{30}{(1+0.1)^1} + \frac{31}{(1+0.1)^2} + \frac{32}{(1+0.1)^3} + \frac{32}{(1+0.1)^4} + \frac{32}{(1+0.1)^5}$$

$$= \text{Rs. 461.7 Cr}$$

$$\text{Bidder 'Y'} = 325 + \frac{30}{(1+0.1)^1} + \frac{34}{(1+0.1)^2} + \frac{35}{(1+0.1)^3} + \frac{37}{(1+0.1)^4} + \frac{39}{(1+0.1)^5}$$

$$= \text{Rs. 456.16 Cr}$$

| | |
|---------------------------------|--|
| Name of Bidder: | |
| Authorized Signature of Bidder: | |

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10.5. Price Sheet

The Bidder shall consider the components and quantity to fulfil the RFP and project requirements in totality.

The first row of the table has been populated as an illustration.

| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| A. Integrated Command and Control Center | | | | | | | | | | | | | | | | | |
| 1 | Video wall (70" in 5*3 configuration) | Unit | | 1 | | | | | | | | | | | | | |
| 2 | Video Wall Controller | Nos. | | 2 | | | | | | | | | | | | | |
| 3 | Video Wall Management Software | Nos. | | 1 | | | | | | | | | | | | | |
| 4 | Cabling & Other Fixtures | Lot | | 1 | | | | | | | | | | | | | |
| 5 | Keyboard Joystick to control PTZ Cameras | Nos. | | As per requirement | | | | | | | | | | | | | |
| 6 | Access Switch | Nos. | | 4 | | | | | | | | | | | | | |
| 7 | LED TV 55" | Nos. | | 10 | | | | | | | | | | | | | |
| 8 | Public Address System | Set | | 2 | | | | | | | | | | | | | |
| 9 | Audio Mixer and speaker system | Set | | 6 | | | | | | | | | | | | | |
| 10 | Monitoring Workstation with three monitors | Nos. | | 20 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----|---|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 11 | Online UPS (sizing as per proposed solution) | Nos. | | As per requirement | | | | | | | | | | | | | |
| 12 | Multifunction Device printing | Nos. | | 2 | | | | | | | | | | | | | |
| 13 | IP Phones | Set | | As per requirement | | | | | | | | | | | | | |
| 14 | Video Conferencing software and solution | Set | | 1 | | | | | | | | | | | | | |
| 15 | Network Colour Laser printer | Nos. | | 6 | | | | | | | | | | | | | |
| 16 | Network B/W Laser Printer (Heavy Duty) | Nos. | | 6 | | | | | | | | | | | | | |
| 17 | Biometric access control system | Nos. | | 10 | | | | | | | | | | | | | |
| 18 | Dome cameras for internal surveillance | Nos. | | 10 | | | | | | | | | | | | | |
| 19 | Fire Alarm System | Set | | 1 | | | | | | | | | | | | | |
| 20 | Rodent Repellent system | Set | | 2 | | | | | | | | | | | | | |
| 21 | Split Air Conditioner (5 star energy efficiency rating) | Nos. | | As per requirement | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL | |
|----|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|--|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 | |
| 22 | Site Preparation as per the RFP | Lump sum | | As per requirement | | | | | | | | | | | | | | |
| 23 | Workstation Furniture and Fixtures for ICCC | Nos. | | 20 | | | | | | | | | | | | | | |
| 24 | Revolving Chairs for office staff | Nos. | | 80 | | | | | | | | | | | | | | |
| 25 | Office Desk Furniture and Fixtures | Nos. | | 80 | | | | | | | | | | | | | | |
| 26 | Meeting Room Table and Chairs Set (for 10 personnel) | Set | | 8 | | | | | | | | | | | | | | |
| 27 | Multiparty Conference Unit (20 People) | Set | | 3 | | | | | | | | | | | | | | |
| 28 | Smart Phones | Set | | 60 | | | | | | | | | | | | | | |
| 29 | Tablets | Set | | 10 | | | | | | | | | | | | | | |
| 30 | Workstation for mgmt. staff with OS | Nos | | 30 | | | | | | | | | | | | | | |
| 31 | Laptops | Nos. | | 10 | | | | | | | | | | | | | | |
| 32 | Desktops for Support Staff | Nos. | | 40 | | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----------------------------|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
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| 33 | Setting up and dismantling of Temporary Command and Control Centre | Lot | | 1 | | | | | | | | | | | | | |
| 34 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of A | | | | | | | | | | | | | | | | | |
| B. Data Center (DC) | | | | | | | | | | | | | | | | | |
| 1 | Core Router | Nos | | 2 | | | | | | | | | | | | | |
| 2 | Internet Routers | Nos | | 2 | | | | | | | | | | | | | |
| 3 | Core Switches | Nos | | 2 | | | | | | | | | | | | | |
| 4 | Firewall (NGFW) | Nos | | 2 | | | | | | | | | | | | | |
| 5 | Intrusion Prevention System | Nos | | 2 | | | | | | | | | | | | | |
| 6 | WAF (Web Application Firewall) | Nos | | 2 | | | | | | | | | | | | | |
| 7 | 42 U Network Rack (Intelligent-Rack) | Nos | | 8 | | | | | | | | | | | | | |
| 8 | KVM Switch with Monitor | Nos | | 2 | | | | | | | | | | | | | |
| 9 | Server load balancer | Nos | | 2 | | | | | | | | | | | | | |
| 10 | Blade Chassis | Nos | | 4 | | | | | | | | | | | | | |
| 11 | Blade Server | Nos | | 28 | | | | | | | | | | | | | |

| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
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| 12 | AI and Continuous Learning Server (including Software) | Nos | | 2 | | | | | | | | | | | | | |
| 13 | NAS/SAN/Scalable NAS Storage | Size | | 1 PB | | | | | | | | | | | | | |
| 14 | Workstation for mgmt. staff with OS | Nos | | 5 | | | | | | | | | | | | | |
| 15 | Tape Library | Nos | | 2 | | | | | | | | | | | | | |
| 16 | IP EPABX | Nos | | 1 | | | | | | | | | | | | | |
| 17 | DDOS | Nos | | 2 | | | | | | | | | | | | | |
| 18 | SAN Switch | Nos | | 2 | | | | | | | | | | | | | |
| 19 | Access/Edge Switch | Nos | | 8 | | | | | | | | | | | | | |
| 20 | IP: Network Video Recorder | Nos | | 2 | | | | | | | | | | | | | |
| 21 | Access Control System | Lot | | 1 | | | | | | | | | | | | | |
| 22 | Backup Software | Lot | | 1 | | | | | | | | | | | | | |
| 23 | Enterprise Management System (including SLA Mngt, Help Desk Mngt, Network Mngt, BMS) | Lot | | 1 | | | | | | | | | | | | | |
| 24 | DB License | Lot | | 1 | | | | | | | | | | | | | |
| 25 | Server OS License | Nos | | 20 | | | | | | | | | | | | | |
| 26 | OS CA License | Nos | | 50 | | | | | | | | | | | | | |

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| 27 | Waste Management Application | Lot | | 1 | | | | | | | | | | | | | |
| 28 | CoSiCoSt application as per requirements provided in the RFP with Server and (n+1) Redundancy | Lot | | 1 | | | | | | | | | | | | | |
| 29 | TRAMM application | Lot | | 1 | | | | | | | | | | | | | |
| 30 | ANPR Application | Lot | | 1 | | | | | | | | | | | | | |
| 31 | TVDS Application | Lot | | 1 | | | | | | | | | | | | | |
| 32 | E Challan Application | Lot | | 1 | | | | | | | | | | | | | |
| 33 | VaMS Application | Lot | | 1 | | | | | | | | | | | | | |
| 34 | Environment Management Application (EMS) | Lot | | 1 | | | | | | | | | | | | | |
| 35 | Automatic Call Distributor Application | Lot | | 1 | | | | | | | | | | | | | |
| 36 | Digital Voice Logger Application | Lot | | 1 | | | | | | | | | | | | | |
| 37 | PAS Application | Lot | | 1 | | | | | | | | | | | | | |
| 38 | GIS Application Server License | Lot | | 1 | | | | | | | | | | | | | |
| 39 | GIS Application desktop License | Lot | | 1 | | | | | | | | | | | | | |

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| 40 | Video Management Application (VMS+VA) | Lot | | 1 | | | | | | | | | | | | | |
| 41 | Virtualization Software License | Nos | | as per requirement | | | | | | | | | | | | | |
| 42 | Wi-Fi Application | Lot | | 1 | | | | | | | | | | | | | |
| 43 | Mail & Messaging application | Lot | | 1 | | | | | | | | | | | | | |
| 44 | ICCC core application | Lot | | 1 | | | | | | | | | | | | | |
| 45 | IOT Platform License | Lot | | 1 | | | | | | | | | | | | | |
| 46 | SOA Integration middleware | Lot | | 1 | | | | | | | | | | | | | |
| 47 | SMS Gateway with annual 2,00,000 SMSs | Lot | | 1 | | | | | | | | | | | | | |
| 48 | Web Server License | Lot | | 1 | | | | | | | | | | | | | |
| 49 | Content Management Software | Lot | | 1 | | | | | | | | | | | | | |
| 50 | DLP Server + 50 Cal license | Lot | | 1 | | | | | | | | | | | | | |
| 51 | Application and Data Encryption | Lot | | 1 | | | | | | | | | | | | | |
| 52 | Secure Email Gateway | Lot | | 1 | | | | | | | | | | | | | |

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| 53 | Anti-virus Software for Application (1-Server + 50-Cal) | Nos | | 50 | | | | | | | | | | | | | |
| 54 | ADC/DC Application , LDAP Server | Lot | | 1 | | | | | | | | | | | | | |
| 55 | Edge AI analytics software (Enterprise License) | Lot | | 1 | | | | | | | | | | | | | |
| 56 | SIEM (HA) | Lot | | 1 | | | | | | | | | | | | | |
| 57 | AAA | Nos. | | 1 | | | | | | | | | | | | | |
| 58 | Advanced Persistent Threat (APT) | Nos. | | 2 | | | | | | | | | | | | | |
| 59 | Web and Content Filtering software | Nos. | | 1 | | | | | | | | | | | | | |
| 60 | HVAC System (2 Ton in Redundant mode) | Nos | | 2 | | | | | | | | | | | | | |
| 61 | Fire Alarm & Suppression System | Nos | | 2 | | | | | | | | | | | | | |
| 62 | Physical security information management (PSIM) Application (may use customized or cots application) | Nos | | 1 | | | | | | | | | | | | | |

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| 63 | Rodent Repellent System | Nos | | 2 | | | | | | | | | | | | | |
| 64 | Indoor Fixed Dome Cameras set | Nos | | 10 | | | | | | | | | | | | | |
| 65 | Fire Proof Enclosure for Media Storage | Nos | | 1 | | | | | | | | | | | | | |
| 66 | Diesel Generator | Nos | | as per requirement | | | | | | | | | | | | | |
| 67 | Auto Main failure(AMF) | Nos | | as per requirement | | | | | | | | | | | | | |
| 68 | Building Management System | Nos | | 1 | | | | | | | | | | | | | |
| 69 | UPS (Inline Power Backup) | Nos | | as per requirement | | | | | | | | | | | | | |
| 70 | Online UPS (sizing as per proposed solution) | Nos | | as per requirement | | | | | | | | | | | | | |
| 71 | Precision Air Conditioning System for the Server Farm Area | Nos | | 4 | | | | | | | | | | | | | |

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| 72 | Split Air Conditioner for the Auxiliary Area | Nos | | 4 | | | | | | | | | | | | | |
| 73 | Site Preparation Cost | Lot | | 1 | | | | | | | | | | | | | |
| 74 | Networking Cost (Passive Components) | Lot | | 1 | | | | | | | | | | | | | |
| 75 | Weigh bridge integration with SWM Application | Lot | | 1 | | | | | | | | | | | | | |
| 76 | Kiosk Management Application | Lot | | 1 | | | | | | | | | | | | | |
| 77 | Helpdesk | | | | | | | | | | | | | | | | |
| a | IP Phone | Nos. | | 9 | | | | | | | | | | | | | |
| b | Voice Logger | Nos. | | 1 | | | | | | | | | | | | | |
| c | Soft telephone | Nos. | | 9 | | | | | | | | | | | | | |
| d | Desktops | Nos. | | 9 | | | | | | | | | | | | | |
| e | Officer Furniture and Revolving Chair | Lot | | 1 | | | | | | | | | | | | | |
| 78 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of B | | | | | | | | | | | | | | | | | |
| C. Disaster Recovery (DR) Center | | | | | | | | | | | | | | | | | |

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| 1 | DR Cost at 50% passive | | | As per requirement | | | | | | | | | | | | | |
| Sub Total of C | | | | | | | | | | | | | | | | | |
| D. Safety and Surveillance | | | | | | | | | | | | | | | | | |
| 1 | Camera Fixed | Nos. | | 304 | | | | | | | | | | | | | |
| 2 | Camera PTZ Cameras | Nos. | | 65 | | | | | | | | | | | | | |
| 3 | IR Illuminator | Nos. | | 369 | | | | | | | | | | | | | |
| 4 | LPU with Edge Device | Nos. | | 93 | | | | | | | | | | | | | |
| 5 | Ruggedized/Industrial appliance with OS at field | Nos. | | as per requirement | | | | | | | | | | | | | |
| 6 | Mounting Rack (Industrial type) | Nos. | | as per requirement | | | | | | | | | | | | | |
| 7 | Gantry and Pole for Camera mounting with Fitting | Nos. | | 369 | | | | | | | | | | | | | |
| 8 | Ruggedized/Industrial Network Switch | Nos. | | as per requirement | | | | | | | | | | | | | |
| 9 | Junction box | Nos. | | 93 | | | | | | | | | | | | | |
| 10 | Rack Mounted LIU | Nos. | | 93 | | | | | | | | | | | | | |

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| 11 | Network CAT6/6E cable | Nos. | | as per requirement | | | | | | | | | | | | | |
| 12 | UPS | Nos. | | as per requirement | | | | | | | | | | | | | |
| 13 | Power Cable | Nos. | | as per requirement | | | | | | | | | | | | | |
| 14 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of D | | | | | | | | | | | | | | | | | |
| E. Intelligent Waste Management System (IWMS) | | | | | | | | | | | | | | | | | |
| 1 | RFID Tags on Bins - 315 locations | Nos. | | 630 | | | | | | | | | | | | | |
| 2 | OBU for Tracking of SWM Vehicles | Nos. | | 14 | | | | | | | | | | | | | |
| 3 | Vehicle Mounted RFID Reader | Nos. | | 10 | | | | | | | | | | | | | |
| 4 | Windshield RFID Tags for Vehicles | Nos. | | 14 | | | | | | | | | | | | | |
| 5 | RFID Reader at Weighbridge with Pole Mount | Nos. | | 2 | | | | | | | | | | | | | |

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| 6 | Weigh Bridge Controller | Nos. | | 2 | | | | | | | | | | | | | |
| 7 | Boom Barrier | Nos. | | 2 | | | | | | | | | | | | | |
| 8 | Fixed Camera | Nos. | | 4 | | | | | | | | | | | | | |
| 9 | PTZ Camera | Nos. | | 2 | | | | | | | | | | | | | |
| 10 | Mobile device for Drivers | Nos. | | 14 | | | | | | | | | | | | | |
| 11 | Mobile with Biometric & GPRS enabled for Supervisors | Nos. | | 30 | | | | | | | | | | | | | |
| 12 | SIM Cards | Nos. | | 55 | | | | | | | | | | | | | |
| 13 | Driver Mobile Application | Nos. | | 14 | | | | | | | | | | | | | |
| 14 | Mobile Application for Supervisors | Nos. | | 30 | | | | | | | | | | | | | |
| 15 | SWM Mobile Application and Integration with Citizen Mobile App | Nos. | | 1 | | | | | | | | | | | | | |
| 16 | Static Weigh Bridge | Nos. | | 2 | | | | | | | | | | | | | |
| 17 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of E | | | | | | | | | | | | | | | | | |
| F. Adaptive Traffic Signal Control System | | | | | | | | | | | | | | | | | |
| 1 | Master Controller | Nos. | | 29 | | | | | | | | | | | | | |

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| 2 | Slave Controller | Nos. | | 105 | | | | | | | | | | | | | |
| 3 | Pelican Signal unit including poles, solar panel & battery, push button unit and control system for complete intersection | Nos. | | 10 | | | | | | | | | | | | | |
| 4 | Camera Based Vehicle Detectors | Nos. | | 105 | | | | | | | | | | | | | |
| 5 | 300 mm RED LEDs | Nos. | | 210 | | | | | | | | | | | | | |
| 6 | 300 mm Amber LEDs | Nos. | | 210 | | | | | | | | | | | | | |
| 7 | 300 mm Green Arrow LEDs | Nos. | | 570 | | | | | | | | | | | | | |
| 8 | 300 mm Pedestrian Green & Red LEDs | Nos. | | 62 | | | | | | | | | | | | | |
| 9 | Countdown Timers | Nos. | | 105 | | | | | | | | | | | | | |
| 10 | Field, ruggedized, outdoor rated Layer-2 switch | Nos. | | 29 | | | | | | | | | | | | | |
| 11 | Solar Power System including Solar module, Solar charger and battery | Nos. | | 29 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|--|---|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 12 | Solar Power System for Blinkers | Nos. | | 15 | | | | | | | | | | | | | |
| 13 | Blinker Controller | Nos. | | 15 | | | | | | | | | | | | | |
| 14 | 300 mm LED Aspect RED/AMBER for Blinker Signals | Nos. | | 104 | | | | | | | | | | | | | |
| 15 | Standard MS Pole | Nos. | | 82 | | | | | | | | | | | | | |
| 16 | Cantilever Pole | Nos. | | 107 | | | | | | | | | | | | | |
| 17 | Foundations – Standard Pole | Nos. | | 82 | | | | | | | | | | | | | |
| 18 | Foundations – Cantilever pole | Nos. | | 107 | | | | | | | | | | | | | |
| 19 | Standard MS Pole for Blinker Signals | Nos. | | 104 | | | | | | | | | | | | | |
| 20 | Foundations - Standard Pole (Blinker Signals) | Nos. | | 104 | | | | | | | | | | | | | |
| 21 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| | Sub Total of F | | | | | | | | | | | | | | | | |
| G. Traffic Violation Detection System | | | | | | | | | | | | | | | | | |
| 1 | ANPR Camera with IR illuminator | Nos. | | 173 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---------------------------|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 2 | Overview Camera with IR illuminator | Nos. | | 105 | | | | | | | | | | | | | |
| 3 | RLVD Sensor | Nos. | | 105 | | | | | | | | | | | | | |
| 4 | Local processing unit with Edge Device | Nos. | | 29 | | | | | | | | | | | | | |
| 5 | ANPR Camera for Left Lane Violation | Nos. | | 28 | | | | | | | | | | | | | |
| 6 | Field Device for e-Challan System | Nos. | | 15 | | | | | | | | | | | | | |
| 7 | Mounting structure with earthing and lightning arrestor | Nos. | | 133 | | | | | | | | | | | | | |
| 8 | Junction Box | Nos. | | 191 | | | | | | | | | | | | | |
| 9 | UPS | Nos. | | 29 | | | | | | | | | | | | | |
| 10 | Car Charger and Carry Case | Nos. | | 15 | | | | | | | | | | | | | |
| 11 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of G | | | | | | | | | | | | | | | | | |
| H. City Governance | | | | | | | | | | | | | | | | | |
| 1 | Integrated Business Process Management Services solution | Set | | 1 | | | | | | | | | | | | | |
| 2 | Citizen Mobile App | Set | | 1 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|--------------------------------|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 3 | City Kiosks Standalone | Nos. | | 10 | | | | | | | | | | | | | |
| 4 | Integrated Kiosk | Nos. | | 10 | | | | | | | | | | | | | |
| 5 | Ruggedized/Industrial Network Switch | Nos. | | 20 | | | | | | | | | | | | | |
| 6 | Migration of existing data into the new system | Lot | | 1 | | | | | | | | | | | | | |
| 7 | PTZ Camera | Nos. | | 10 | | | | | | | | | | | | | |
| 8 | Thermal Printer | Nos. | | 10 | | | | | | | | | | | | | |
| 9 | Dot Matrix Printer | Nos. | | 10 | | | | | | | | | | | | | |
| 10 | Scanner | Nos. | | 10 | | | | | | | | | | | | | |
| 11 | UPS | Nos. | | 20 | | | | | | | | | | | | | |
| 12 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of H | | | | | | | | | | | | | | | | | |
| Other Smart Elements | | | | | | | | | | | | | | | | | |
| I. Environmental system | | | | | | | | | | | | | | | | | |
| 1 | Environment Sensors | Nos. | | 5 | | | | | | | | | | | | | |
| 2 | Pole and mounting | Nos. | | As per requirement | | | | | | | | | | | | | |
| 3 | UPS | Nos. | | 5 | | | | | | | | | | | | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | | 5 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|--|---|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 5 | Environment Application Integration with Citizen Mobile App | Nos. | | 1 | | | | | | | | | | | | | |
| 6 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of I | | | | | | | | | | | | | | | | | |
| J. Smart Wi-Fi | | | | | | | | | | | | | | | | | |
| 1 | Wi-Fi Router | Nos. | | 13 | | | | | | | | | | | | | |
| 2 | Access Points | Nos. | | As per requirement | | | | | | | | | | | | | |
| 3 | Ruggedized/Industrial Network Switch | Nos. | | As per requirement | | | | | | | | | | | | | |
| 4 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of J | | | | | | | | | | | | | | | | | |
| K. Variable Message Signboard (VMS) | | | | | | | | | | | | | | | | | |
| 1 | VaMS system | Nos. | | 13 | | | | | | | | | | | | | |
| 2 | UPS | Nos. | | 13 | | | | | | | | | | | | | |
| 3 | Pole and mounting | Nos. | | 13 | | | | | | | | | | | | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | | 13 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---------------------------------------|--|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 5 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of K | | | | | | | | | | | | | | | | | |
| L. Public Address system (PAS) | | | | | | | | | | | | | | | | | |
| 1 | PAS system | Nos. | | 29 | | | | | | | | | | | | | |
| 2 | UPS | Nos. | | 29 | | | | | | | | | | | | | |
| 3 | Pole and mounting | Nos. | | 29 | | | | | | | | | | | | | |
| 4 | Ruggedized/Industrial Network Switch | Nos. | | 29 | | | | | | | | | | | | | |
| 5 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of L | | | | | | | | | | | | | | | | | |
| M. Smart Classroom | | | | | | | | | | | | | | | | | |
| 1 | Desktop Computer | Nos. | | 15 | | | | | | | | | | | | | |
| 2 | Interactive White Board | Nos. | | 15 | | | | | | | | | | | | | |
| 3 | UPS | Nos. | | 15 | | | | | | | | | | | | | |
| 4 | Audio System with Microphone | Nos. | | 15 | | | | | | | | | | | | | |
| 5 | Ultra Short-Throw Projector | Nos. | | 15 | | | | | | | | | | | | | |
| 6 | Fixed Camera | Nos. | | 15 | | | | | | | | | | | | | |
| 7 | Operating System – Windows 10 or Higher | Nos. | | 15 | | | | | | | | | | | | | |
| 8 | Antivirus | Nos. | | 15 | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---|--|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 9 | Metallic Cabinet/Podium | Nos. | | 15 | | | | | | | | | | | | | |
| 10 | Network Equipment | Nos. | | 15 | | | | | | | | | | | | | |
| 11 | Any other item required as per bidder design | Lot | | | | | | | | | | | | | | | |
| Sub Total of M | | | | | | | | | | | | | | | | | |
| N. Software and service customization cost | | | | | | | | | | | | | | | | | |
| 1 | Manpower cost | | | | | | | | | | | | | | | | |
| 2 | Customization cost | | | | | | | | | | | | | | | | |
| 3 | Integration cost | | | | | | | | | | | | | | | | |
| Sub-Total of N | | | | | | | | | | | | | | | | | |
| O. Training and Overall Project Management | | | | | | | | | | | | | | | | | |
| Project Resources | | | | | | | | | | | | | | | | | |
| 1 | Project Director | Man year cost (man month rate *12) | | 0.5 | | | | | | | | | | | | | |
| 2 | Project Manager | Man year cost | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---|--------------------|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| | | (man month rate *12) | | | | | | | | | | | | | | | |
| 3 | Solution Architect | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |
| 4 | Network Architect | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |
| 5 | Security Architect | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|---|---|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| | | rate *12) | | | | | | | | | | | | | | | |
| 6 | Command & Communications/ Control Center Expert | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |
| 7 | IoT Expert | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |
| 8 | QA Manager | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----|-------------------------------|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| 9 | Master Trainer | Man year cost (man month rate *12) | | 1 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 0.5 | | | |
| 10 | SWM Support Engineer | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| 11 | e-Governance Support Engineer | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| 12 | Integration Support Engineer | Man year cost | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----|--------------------------------------|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| | | (man month rate *12) | | | | | | | | | | | | | | | |
| 13 | Helpdesk Operations Support Engineer | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| 14 | Facility Management Supervisor | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| 15 | Project Associates | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|------------------------|---|------------------------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| | | rate *12) | | | | | | | | | | | | | | | |
| 16 | Others | Man year cost (man month rate *12) | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | |
| Training Cost | | | | | | | | | | | | | | | | | |
| 17 | Functional Training | | | | | | | | | | | | | | | | |
| 18 | Administrative Training | | | | | | | | | | | | | | | | |
| 19 | Sr. Management Training | | | | | | | | | | | | | | | | |
| 20 | Project Management/Coordination during implementation | | | | | | | | | | | | | | | | |
| 21 | Security and BoQ Audit Charges | | | | | | | | | | | | | | | | |
| 22 | Operational Expenses during implementation | | | | | | | | | | | | | | | | |
| Sub Total of O | | | | | | | | | | | | | | | | | |
| Year Wise Total | | | | | | | | | | | | | | | | | |

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| # | Items | Unit of Measurement | Price including (Supply, Installation and Commissioning and all applicable taxes) | CAPEX | | OPEX - YEAR 1 | | OPEX - YEAR 2 | | OPEX - YEAR 3 | | OPEX - YEAR 4 | | OPEX - YEAR 5 | | Total OPEX | TOTAL |
|----------------------------|-------|---------------------|---|--|--|---------------|-------|---------------|--------|---------------|---------|---------------|---------|---------------|---------|------------------|---------|
| | | | | Quantity Proposed (exclusive of spare and consumables) | Total Price including All taxes, levies, duties, etc. as applicable (in Indian Rupees) | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | Unit | Cost | | |
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=4x7 | 9 | 10=4x9 | 11 | 12=4x11 | 13 | 14=4x13 | 15 | 16=4x15 | 17=8+10+12+14+16 | 18=6+17 |
| Total Project Value | | | | | | | | | | | | | | | | | |

Note: Bidder must ensure that all the line items are covered as specified in BOM and all required fields in the Commercial bid format are duly filled and calculated appropriately. All amounts to be quoted in Indian Rupees.

| | |
|---------------------------------|--|
| Name of Bidder: | |
| Authorized Signature of Bidder: | |

N.B-

- The indicative/estimated quantity provided in the RFP would be used for evaluation purposes; however, payment would be done on actual usage basis.
- The price quoted in the format given above will be used for evaluation purposes and will be treated as total envisaged value of the project.
- Bidder must ensure that all amounts to be quoted in INR.
- Manpower cost is per annum, and at the time of monthly payment – payment will be done as per man month rate which is equal to Manpower rate per annum divided by 12.

- *Value coated as total price must contain all the components required for the successful implementation of the project. Nothing extra will be paid by the client beyond the value coated in the above form, until there is change request is approved by Authority.*
- *For the bandwidth charges (including aggregate bandwidth at DC and Lease Circuit Bandwidth), Lower of the Quoted prices as above or prices as applicable at the time of invoicing shall be considered. Client is entitled to ask for the adequate documentary evidence from the Bidder to support the applicable prices.*
- *Taxes as applicable at the time of invoicing shall be considered. Any changes (upward or downward) in the taxes/duties shall be accordingly revised at the time of actual payments and paid.*

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11. Annexure 5 (a) – Performance Bank Guarantee

Ref: _____

Date _____

Bank Guarantee No. _____

<Name>

<Designation>

<Address><Phone

Nos.><Fax

Nos.><Email id>

Whereas, <<name of the supplier and address>> (hereinafter called “the System Integrator”) has undertaken, in pursuance of contract no. <Insert Contract No.> dated. <Date> to provide Implementation services for <<name of the assignment>> to Rourkela Smart City Limited (hereinafter called “the Client”)

And whereas it has been stipulated by in the said contract that the bidder shall furnish you with a bank guarantee by a recognized bank for the sum specified therein as security for compliance with its obligations in accordance with the contract;

And whereas we, <Name of Bank> a banking company incorporated and having its head/registered office at <Address of Registered Office> and having one of its office at <Address of Local Office> have agreed to give the supplier such a bank guarantee.

Now, therefore, we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only) and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the bidder before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Master System Integrator shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This Guarantee shall be valid until <<Insert Date>>)

Notwithstanding anything contained herein:

- I. Our liability under this bank guarantee shall not exceed Indian Rupees<Insert Value> (Rupees <Insert Value in Words> only).
- II. This bank guarantee shall be valid up to <Insert Expiry Date>

III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this bank guarantee that we receive a valid written claim or demand for payment under this bank guarantee on or before <Insert Expiry Date>) failing which our liability under the guarantee will automatically cease.

Date _____

Place _____

Signature _____

Witness _____

Printed name _____

(Bank's common seal)

12. Annexure 5 (b) – Bank Guarantee for Earnest Money Deposit

To,

<Name>

<Designation>

<Address>

<Phone Nos.>

<Fax Nos.>

<Email id>

Whereas <<Name of the bidder>> (hereinafter called 'the Master System Integrator') has submitted the bid for Submission of RFP <<RFP Number>> dated <<Date>> for <<Name of the assignment>> (hereinafter called "the Bid") to <<Client>> .

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

The conditions of this obligation are:

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

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

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

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

- I. Our liability under this Bank Guarantee shall not exceed Indian Rupees<<Amount in figures>> (Rupees <<Amount in words>> only)
- II. This Bank Guarantee shall be valid up to <<insert date>>)

- III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <<insert date>>) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank)

Seal:

Date: