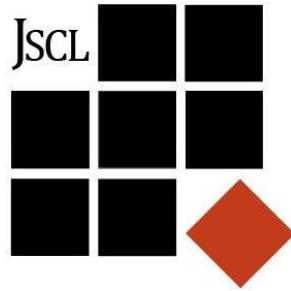


Jaipur Smart City Limited



INVITATION FOR BID (IFB)

Bid Reference No. JSCl/Smart City Works/30/2018-19

RFP for
Integrated City Operation Centre in existing
JSCl building

February - 2018

Jaipur Smart City Limited

JMC Building, Pt. Deendayal Upadhyay Bhawan, Lal Kothi, Tonk Road, Jaipur-302016
Phone No. 0141-2741346/2741347, E-Mail ID: jscljaipur@gmail.com

Bid Reference No. JSCL/Smart City

Works/30/2018-19

Bidding Document

Table of Contents

Notice Inviting Bids:

Section-I: Instructions to Bidders

Section-II: Bid Data Sheet

Section-III: Evaluation and Qualification Criteria

Section-IV: Bidding Forms

Section-V: Procuring Entity's Requirements.....

Section-VIA: General Conditions of Contract.....

Section-VIB: Special Conditions of the Contract

Section-VIC: Contract Forms

Section-VII: Drawings

EMP for Sub-Projects

Environmental and Social Management Framework

DISCLAIMER

This request for proposal (RFP) contains brief information about the Project, Qualification Requirements, Eligibility Criteria and the Selection process for the successful bidder. The purpose of this RFP documents is to provide bidders with information to assist in the formulation of their proposal ('proposal').

The information ('Information') contained in this RFP document or subsequently provided to interested parties (the bidder(s)), in writing by or on behalf of Jaipur Smart City Limited (JSCL) is provided to Bidder(s) on the terms and conditions set out in this RFP documents and any other terms and conditions subject to which such information is provided. This RFP document does not purport to contain all their information each Bidder may require. This RFP document may not be appropriate for all persons, and it is not possible for JSCL, their employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP document. Certain Bidders may have a better knowledge of the proposed Project than others. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.

JSCL, their employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy; reliability or completeness of the RFP document and information provided hereunder is only to the best of the knowledge of JSCL.

Intimation of discrepancies in the RFP, if any, should be given to the office of the JSCL immediately by the Bidder. If JSCL receives no written communication, it shall be deemed that the Bidders are satisfied that the RFP document is complete in all respects.

This RFP, along with its Annexures, is not transferable and will be issued only to the interested Bidding Company or the Lead Member of the interested Bidding Consortium. The RFP and the information contained therein are to be used only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project in accordance with this RFP, this RFP must be kept confidential.

This RFP document is not an agreement and is not an offer or invitation by JSCL to any other party. The terms on which the Project is to be developed and the right of the successful bidder shall be as set out in separate agreement contained herein. JSCL reserves the right to accept or reject any or all proposals without giving any reasons thereof. JSCL will not entertain any claim for expenses in relation to the preparation of RFP submissions.

Neither Jaipur Smart City Limited, nor its employees and advisors/consultants will have any liability to any Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP, any matter deemed to form part of this RFP, the award of the Project, the information supplied by or on behalf of JSCL or its employees, any advisors/consultants or otherwise arising in any way from the selection process for the said Project.

The purchaser of the RFP, which may be the Bidder or the lead Member of the Bidding Consortium and on behalf of each Member of such Consortium, shall be deemed to have confirmed that the Bidders are fully satisfied with the process of evaluation of the Responses and the JSCL's decision regarding the qualification or disqualification or short listing of the Bidders. The Bidders hereby expressly waive any and all objections or claims in respect thereof.

This RFP may be withdrawn or cancelled by JSCL at any time without assigning any reasons thereof. JSCL further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.

Jaipur Smart City Limited

JMC Building, Pt Deendayal Upadhyay Bhawan,
Lal Kothi, Tonk Road, Jaipur – 302016
E-Mail ID: jscljaipur@gmail.com

SHORT-TERM NOTICE INVITING TENDER Bid Reference No. JSCL/Smart City Works/30/2018-19

Jaipur Smart City Limited (JSCL), Jaipur invites online e-bids from reputed contracting firms who have experience in multidisciplinary urban Infrastructure Projects for the following work.

S. No.	Name of Work	Estimated Project Cost	Earnest Money deposit(Rs.)	Tender document Fee	Bid processing fee	Period of Completion
1	Integrated City Operation Centre in existing JSCL building	Rs. 4.12 Crores (Rupees Four Crores and Twelve lacs only)	Rs. 8.24 Lakh (Rupees Eight lacs and Twenty-Four thousand only)	Rs. 20,000.00 (Rupees Twenty Thousand Only)	Rs. 1000.00 (Rupees One Thousand Only)	45 (Forty Five Days)

Salient dates

(i)	Bid document Downloading and Submission Start Date and time	5 th February, 2018 at 11:00 AM
(ii)	Bid document Downloading End Date and time	20 th February, 2018 at 5:00 PM
(iii)	Last date and time of Online submission of technical proposal and financial proposal	20 th February, 2018 at 5:00 PM
(iv)	Last date and time of Physical submission of EMD, Bid document fee Bid processing fee & Power of Attorney	21 st February, 2018 Up to 5:00 PM
(v)	Opening of bid online (Technical proposal only)	22 nd February, 2018 at 3:00 PM

Terms:

- Demand draft of EMD and Bid Cost are to be submitted in favour of Chief Executive Officer, Jaipur Smart City Limited, Jaipur & Bid Processing fee in favour of Managing Director, RISL, Jaipur.
- This notice and bid documents are available on following internet site address for e tender www.eproc.rajasthan.gov.in or <http://sppp.rajasthan.gov.in>
- A complete set of bid documents can be downloaded from above websites.
- Bids shall remain valid for 120 days (one hundred and twenty days) from the date of submission of the bid
- Any bid not accompanied by Bid document fee, Bid processing fee and Earnest Money as in the NIT will be rejected as nonresponsive.
- Complete e-Tender must be submitted on-line on www.eproc.rajasthan.gov.in
- Any addendum, clarification to the bidder's queries and corrigendum will be published on the www.eproc.rajasthan.gov.in or <http://sppp.rajasthan.gov.in> and will not be published in the Newspapers.

**Chief Executive Officer
Jaipur Smart City Limited**

SECTION-I: INSTRUCTION TO BIDDERS

Contents

1	General	5
2	Contents of Bidding Document	9
3	Preparation of Bids	13
4	Submission and Opening of Bids	23
5	Evaluation and Comparison of Bids	29
6	Award of Contract	36
7	Grievance Handling Procedure during Procurement Process (Appeals)	41
8	Appendix A : Grievance Handling Procedure during Procurement Process (Appeals)	42

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

Important Instruction:- The Law relating to procurement “The Rajasthan Transparency in Public Procurement Act, 2012” [hereinafter called the Act] and the “Rajasthan Transparency Public Procurement Rules, 2013” [hereinafter called the Rules] under the said Act have come into force which are available on the website of State Public Procurement Portal <http://sppp.rajasthan.gov.in>. Therefore, the Bidders are advised to acquaint themselves with the provisions of the Act and the Rules before participating in the Bidding process. If there is any discrepancy between the provisions of the Act and the Rules and this Bidding Document, the provisions of the Act and the Rules shall prevail.

1. General			
1.1	Scope of Bid	1.1.1	In support of the Invitation to Bid indicated in the Bid Data Sheet (BDS), the Procuring Entity, as indicated in the BDS, issues this Bidding Document for the supply of Goods/ equipment and Related Services incidental thereto as specified in Section V [Schedule of Supply (SS)].
		1.1.2	Throughout this Bidding Document : i. the term “in writing” means communicated in written form through letter, fax, e-mail etc. with proof of receipt; ii. if the context so requires, singular means plural and vice versa; and iii. “Day” means calendar day.
1.2	Source of Funds	1.2.1	The expenditure on this project..... [Name of Project] will be met by budgetary resources of Government of Rajasthan/ Procuring Entity.
1.3	Code of Integrity	1.3.1	Any person participating in the procurement process shall - (a) not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process; (b) not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation; (c) not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process; (d) not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			<ul style="list-style-type: none">(e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;(f) not obstruct any investigation or audit of a procurement process;(g) disclose conflict of interest, if any; and(h) disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.
	Conflict of Interest	1.3.2	<p>A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.</p> <p>i . A Bidder may be considered to be in conflict of interest with one or more parties in this bidding process if, including but not limited to:</p> <ul style="list-style-type: none">a. have controlling partners/shareholders in common; orb. receive or have received any direct or indirect subsidy from any of them; orc. have the same legal representative for purposes of this Bid; ord. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding this bidding process; ore. the Bidder participates in more than one Bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; orf. the Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods and Services that are the subject of the Bid; org. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			ii. The Bidder shall have to give a declaration regarding compliance of the Code of Integrity prescribed in the Act, the Rules and stated above in this Clause along with its Bid, in the format specified in Section IV, Bidding Forms.
	Breach of Code of Integrity by the Bidder:	1.3.3	Without prejudice to the provisions of Chapter IV of the Rajasthan Transparency in Public Procurement Act, in case of any breach of the Code of Integrity by a Bidder or prospective Bidder, as the case may be, the Procuring Entity may take appropriate action in accordance with the provisions of sub-section (3) of section 11 and section 46 of the Act.
1.4	Eligible Bidders	1.4.1	<p>A Bidder may be a natural person, private Entity, government-owned Entity or, where permitted in the Bidding documents, any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture [JV], Consortium or Association. In the case of a Joint Venture, Consortium or Association: -</p> <ul style="list-style-type: none">(a) all parties to the Joint Venture, Consortium or Association shall sign the Bid and they shall be jointly and severally liable; and(b) a Joint Venture, Consortium or Association shall nominate a representative who shall have the authority to conduct all business for and on behalf of any or all the parties of the Joint Venture, Consortium or Association during the Bidding process. In the event the Bid of Joint Venture, Consortium or Association is accepted, either they shall form a registered Joint Venture, Consortium or Association as company/firm or otherwise all the parties to Joint Venture, Consortium or Association shall sign the Agreement.
		1.4.2	A Bidder, and all parties constituting the Bidder, shall have the nationality of India. In case of International Competitive Bidding or Joint Venture, Consortium or Association [where permitted], the nationality of the Bidder and all parties constituting the Bidder shall be of India or a country not declared ineligible by Government of India. A Bidder shall be deemed to have nationality of a country if the Bidder is a citizen or constituted or incorporated, and operates in conformity with the provisions of the Laws of that country.

Section-I: Instruction to BiddersRFP for Integrated City Operation Centre in existing JSCL building

		1.4.3	A Bidder should not have a conflict of interest in the procurement in question as stated in the Rule 81 and this Bidding document.
		1.4.4	A Bidder debarred under section 46 of the Act shall not be eligible to participate in any procurement process undertaken by - (a) any Procuring Entity, if debarred by the State Government; and (b) a Procuring Entity if debarred by such procuring Entity.
		1.4.5	The Bidder must be manufacturer, or where permitted, distributor, authorised dealer, registered Bidder, bona-fide dealer in the Goods and if required he shall furnish necessary proof for the same in the specified format. Where applicable, proof of authorisation by the manufacturer or country distributor in India, shall be enclosed.
		1.4.6	<p>i. Any change in the constitution of the firm, etc., shall be notified forthwith by the Bidder in writing to the Procuring Entity and such change shall not relieve any former member of the firm, etc., from any liability under the Contract.</p> <p>ii No new partner/partners shall be accepted in the firm by the Bidder in respect of the contract unless he/they agree to abide by all its terms, conditions and deposit with the Procuring Entity a written agreement to this effect. The Bidder's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the Contract.</p> <p>iii The status of the lead partner/ representative of the Joint Venture, Consortium or Association as a major stake holder shall not change without the consent of the Procuring Entity. New major stake holder must agree to abide by all terms and conditions of the Contract.</p>
		1.4.7	Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Entity, should the Procuring Entity request.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		1.4.8	In case a prequalification, empanelment or registration process has been conducted prior to the Bidding process, this Bidding will be open only to the pre-qualified, empanelled or registered Bidders.
		1.4.9	Each Bidder shall submit only one Bid except in case of alternative bids, if permitted.
		1.4.10	No Bidder who is not registered under the Sales Tax Act prevalent in the State where his business is located shall bid. The Sales Tax Registration Number must be quoted and a VAT/ Sales Tax Clearance certificate from the Commercial Taxes Officer of the Circle concerned shall be submitted without which the Bid is liable to be rejected.
1.5	Eligible Goods and Related Services	1.5.1	All Goods and Related Services to be supplied under the Contract shall have India as their country of origin or a country which has not been declared ineligible by Government of India.
		1.5.2	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, installation, transportation, testing, commissioning, training, and mandated operation and maintenance, as applicable.
		1.5.3	The term “ country of origin” means the country where the Goods have been mined, grown, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its imported components.
		1.5.4	The nationality of the firm that produces, assembles, distributes, or sells the Goods shall not determine their origin.
		1.5.5	If so required in the Bid Data Sheet (BDS), a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer’s Authorisation using the form included in Section IV [Bidding Forms] to demonstrate that it has been duly authorised by the manufacturer or producer of the Goods to supply these Goods in India.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

2. Contents of Bidding Document			
2.1	Sections of the Bidding Document	2.1.1	<p>The Bidding Document consists of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB Clause 2.3 [Amendment of Bidding Document].</p> <p>Part 1: Bidding Procedures Section I. Instructions to Bidders (ITB) Section II. Bid Data Sheet (BDS) Section III. Evaluation and Qualification Criteria Section IV. Bidding Forms</p> <p>Part 2: Supply Requirements Section V. (a) Schedule of Supply, installation/ commissioning, Mandatory operation and maintenance, training etc. (b) Specifications/ conformance to standards, designs and drawings etc.</p> <p>Part 3: Contract Section VI A. General Conditions of Contract [GCC] Section VI B. Special Conditions of Contract [SCC] Section VI C. Contract Forms</p> <p>The Notice Inviting Bids issued by the Procuring Entity shall also be a part of the Bidding Document.</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		2.1.2	<p>i. The sale of Bidding Document shall be commenced from the date of publication of Notice Inviting Bids and shall be stopped one day prior to the date of opening of Bids. The complete Bidding Document shall also be placed on the website of State Public Procurement Portal. The prospective Bidders shall be permitted to download the Bidding Document from the website and pay its price while submitting the filled-up Bidding Document to the Procuring Entity, or e-procurement gateway, if the facility is available.</p> <p>ii. The Bidding Document shall be made available to any Bidder who pays the price for it, as specified in the BDS, in cash or by bank demand draft, banker's cheque of a Scheduled Bank, unless the procurement is reserved for any specific category of Bidders:</p> <p>iii. Bidding Document purchased by Principal of any concern may be used by its authorised sole selling agents/ marketing agents/ distributors/ sub-distributors and authorised dealers or vice versa, if permitted in BDS.</p>
		2.1.3	<p>The Procuring Entity is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the Procuring Entity or not downloaded correctly from the Procuring Entity's website/ State Public Procurement Portal.</p>
		2.1.4	<p>The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or authentic documentation required by the Bidding Document may result in rejection of the Bid.</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

2.2	Clarification of Bidding Document and Pre-Bid Conference	2.2.1	The Bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the Goods and Related Services to be supplied. If any Bidder has any doubts as to the meaning of any portion of the conditions or of the specifications, drawings etc., it shall, before submitting the Bid, refer the same to the Procuring Entity and get clarifications. A Bidder requiring any clarification of the Bidding Document shall contact the Procuring Entity in writing at the Procuring Entity's address indicated in the BDS. The Procuring Entity will respond in writing to any request for clarification, within seven days, provided that such request is received no later than twenty-one (21) days prior to the deadline for submission of Bids as specified in ITB Sub-Clause 4.2.1 [Deadline for Submission of Bids]. The Procuring Entity shall forward copies of its response to all Bidders who have acquired/procured the Bidding Document directly from it including a description of the inquiry but without identifying its source. It shall also be placed on the websites of State Public Procurement Portal and should the Procuring Entity deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so following the procedure under ITB Clause 2.3 [Amendment of Bidding Document].
		2.2.2	The Bidder or his authorised representative is invited to attend the Pre- Bid Conference, if provided for in the BDS. The purpose of the Pre- Bid Conference will be to clarify issues and to answer questions on any matter related to this procurement that may be raised at that stage.
		2.2.3	The Bidder is requested, to submit questions in writing, to reach the Procuring Entity not later than one week before the Pre- Bid Conference.
		2.2.4	Minutes of the Pre-Bid Conference, including the text of the questions raised, and the responses given, without identifying the source, will be transmitted promptly to all Bidders who have acquired the Bidding Document and will also be placed on the State Public Procurement Portal. Any modification to the Bidding Document that may become necessary as a result of the Pre-Bid Conference shall be made by the Procuring Entity exclusively through the issue of an addendum (part of Bidding Document) and not through the minutes of the Pre-Bid Conference.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		2.2.5	At any time prior to the deadline for submission of the Bids, the Procuring Entity, suo motto, may also amend the Bidding Document, if required, by issuing an addenda which will form part of the Bidding Document.
		2.2.6	Non-attendance at the Pre-Bid Conference will not be a cause for disqualification of a Bidder.
2.3	Amendment of Bidding Document	2.3.1	Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all Bidders who have obtained the Bidding Document directly from the Procuring Entity. It shall also be uploaded on the website of State Public Procurement Portal for prospective bidders to download.
		2.3.2	At any time prior to the deadline for submission of the Bids, the Procuring Entity, suo motto, may also amend the Bidding Document, if required, by issuing an addenda which will form part of the Bidding Document.
		2.3.3	To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Entity may, at its discretion, extend the deadline for the submission of the Bids, pursuant to ITB Sub-Clause 4.2 [Deadline for Submission of Bids], under due intimation to the Bidders who have procured the Bidding Document from the Procuring Entity and also by uploading it on the website of State Public Procurement Portal.
3. Preparation of Bids			
3.1	Cost of Bidding	3.1.1	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		3.1.2	<p>The Bidder shall furnish the attested copies of following documents with its Bid:-</p> <ol style="list-style-type: none">i. Partnership Deed and valid registration certificate with the Registrar of Firms in case of Partnership Firms. Power of Attorney in favour of the partner signing the Bid, authorizing him to represent all partners of the firm.ii. VAT/ Sales Tax registration certificate and VAT/Sales Tax clearance certificate from the concerned Commercial Taxes Officer and Permanent Account Number (PAN) issued by Income-Tax Department.iii. Address of residence and office, telephone numbers e-mail address, if any in case of sole Proprietorship.iv. Registration certificate and Memorandum of Association issued by Registrar of Companies in case of a registered company and in case of another statutory or registered body, certificate of incorporation or registration issued by concerned authority. Power of attorney in favour of the person signing the Bid.v. Where permitted to bid as Joint Venture, Consortium or Association, letter of formal intent to enter in to an agreement or an existing agreement in the form of a Joint Venture, Consortium or Association.
3.2	Language of Bid	3.2.1	<p>The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Entity, shall be written in the language specified in the BDS. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by a self attested accurate translation of the relevant passages duly accepted by the Bidder in the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.</p>
3.3	Documents Comprising the Bid	3.3.1	<p>The Bid shall comprise of two envelopes submitted simultaneously, one containing the Technical Bid and the other the Financial or Price Bid, enclosed together in an outer single envelope.</p>
		3.3.2	<p>The Technical Bid shall contain the following :</p> <ol style="list-style-type: none">i. Technical Bid Submission Sheet and Technical Bid containing the filled up Bidding Forms and Declarations related to Technical Bid and Code of Integrity given Section IV, Bidding Forms;ii. proof of payment of price of Bidding Document, processing fee/ user charges, where applicable, Bid

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			<p>Security, in accordance with ITB Clause 3.13;</p> <ul style="list-style-type: none">iii. alternative Technical Bid, if permissible, in accordance with ITB Clause 3.5;iv. written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 3.14;v. documentary evidence in accordance with ITB Clause 3.8 establishing the Bidder's eligibility to bid;vi. documentary evidence in accordance with ITB Clause 3.9, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;vii. documentary evidence in accordance with ITB Clauses 3.10, that the Goods and Related Services conform to the Bidding Document;viii. documentary evidence in accordance with ITB Clause 3.11 establishing the Bidder's qualifications to perform the contract if its Bid is accepted;ix. samples, as required or where asked for, and the specifications, installation, testing, commissioning and performance requirements. For installation and commissioning the Bidder should confirm the availability of qualified and experienced technical personnel as required;x. Drawings/ designs in support of the Goods to be supplied;xi. any other document required in the BDS; andxii. others considered necessary otherwise to strengthen the Bid submitted.
		3.3.3	<p>The Financial Bid shall contain the following:</p> <ul style="list-style-type: none">i. Financial Bid Submission Sheet and the applicable Price Schedules, in accordance with ITB Clauses 3.4, 3.6 and 3.7;ii. Alternative Financial Bid/ Price Proposal corresponding to the alternative Technical Proposal, if permissible, in accordance with ITB Clause 3.5; andiii. Any other document required in the BDS.
3.4	Bid Submission Sheets and Price Schedules	3.4.1	<p>The Bidder shall submit the Technical Bid and Financial Bid using the appropriate Bid Submission Sheets provided in Section IV, Bidding Forms. These forms must be completed without any alterations to their format, and no substitutes shall be accepted. All blank spaces shall be filled in ink or typed with the information requested.</p>

Section-I: Instruction to BiddersRFP for Integrated City Operation Centre in existing JSCL building

		3.4.2	The Bidder shall submit as part of the Financial Bid, the Price Schedules for Goods and Related Services, according to their origin as appropriate, using the forms provided in Section IV, Bidding Forms.
3.5	Alternative Bids	3.5.1	Unless otherwise specified in the BDS, alternative Bids shall not be considered.
3.6	Bid Prices and Discounts	3.6.1	The prices and discounts quoted by the Bidder in the Bid Submission Sheet and in the Price Schedules shall conform to the requirements specified in following Sub-Clauses:
		3.6.2	All items in the Schedule of Supply must be specified/ listed and priced separately in the Financial Schedules. If a Financial Schedule shows items specified/ listed but not priced, these may be marked as Not Quoted.
		3.6.3	The price to be quoted in the Bid Submission Sheet shall be the total price of the Bid excluding any discounts offered. Discounts, if permitted, shall be shown separately.
		3.6.4	The Bidder shall quote any unconditional discounts, if permitted, and the methodology for their application in the Financial Bid Submission Sheet.
		3.6.5	In Case of International Competitive Bidding, the terms EXW, CIF, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, on the date of the Invitation for Bids or as specified in the BDS.
		3.6.6	Prices proposed in the Price Schedule Forms for Goods and Related Services, shall be disaggregated, when appropriate, as indicated in this Sub-Clause. This disaggregation shall be solely for the purpose of facilitating the comparison of Bids by the Procuring Entity.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			<p>This shall not in any way limit the Procuring Entity's right to contract on any combination of the terms offered:</p> <p>(a) For Goods offered from within India:</p> <ol style="list-style-type: none">i. The price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of Goods quoted ex works or ex factory, or on the previously imported Goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf. If requested, excise duty is to be shown separately.ii. Sales tax/ VAT and all other taxes applicable in India and Rajasthan or other payable on the Goods if the Contract is awarded to the Bidder; andiii. The total price FOR at site or place of delivery of the item. <p>(b) For Goods offered from outside India:</p> <ol style="list-style-type: none">i. the price of the Goods quoted CIF (named port of destination), or CIP (border point), or CIP (named place of destination), in India, as specified in the BDS;ii. the price of the Goods quoted FOB port of shipment (or FCA, as the case may be), if specified in the BDS;iii. the total price FOR at site or place of delivery for the item. <p>(c) For Related Services:</p> <ol style="list-style-type: none">i. the local currency cost component of each item comprising the Related Services; andii. the foreign currency cost component, if permitted, of each item comprising the Related Services, inclusive of all statutory taxes, custom duties, sales, service and other similar taxes applicable in India, payable on the Related Services, if the Contract is awarded to the Bidder.
		3.6.7	<p>Prices quoted by the Bidder shall be fixed during the Bidder's Performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A Bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected,</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			pursuant to ITB Clause 5.7 [Responsiveness of Bids]. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.
		3.6.8	If Bids are being invited for individual contracts (lots) or for any combination of contracts (packages), unless otherwise indicated in the BDS, prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer any price reduction for the award of more than one Contract shall specify the applicable price reductions in accordance with ITB Clause 3.6.4, provided the Bids for all lots are submitted and opened at the same time.
		3.6.9	All rates quoted must be FOR destination and should include all incidental charges except Central/ Rajasthan Sales Tax/ VAT, Entry Tax, which should be shown separately. No cartage or transportation charges will be paid by Procuring Entity and the delivery [including unloading and stacking etc.] of the Goods shall be given at the designated premises of the Procuring Entity.
3.7	Currencies of Bid.	3.7.1	The unit rates and the prices shall be quoted by the Bidder entirely in Indian Rupees unless otherwise specified in BDS in case of International Competitive Bidding (ICB). All payments shall be made in Indian Rupees only, unless otherwise specified in the BDS.
3.8	Documents Establishing the Eligibility of the Bidder	3.8.1	To establish their eligibility in accordance with ITB Clause 1.4 [Eligible Bidders], Bidders shall: <ul style="list-style-type: none"> i. complete the eligibility declarations in the Bid Submission Sheet and Declaration Form included in Section IV [Bidding Forms]; ii. if the Bidder is an existing or intended JV, Consortium or Association in accordance with ITB Sub-Clause 1.4.1, shall submit a copy of the Agreement, or a letter of intent to enter into such Agreement. The respective document shall be signed by all legally authorised signatories of all the parties to the existing or intended JV, Consortium or Association as appropriate; and iii. the existing or intended JV shall authorise an individual/partner in one of the firm of the JV to act and

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			commit all the partners of JV for the Bid.
3.9	Documents Establishing the Eligibility of the Goods and Related Services	3.9.1	To establish the eligibility of the Goods and Related Services, in accordance with ITB Clause 1.5 [Eligible Goods and Related Services], Bidders shall complete the country of origin declarations in the Price Schedule Forms included in Section IV [Bidding Forms].
3.10	Documents, Tests, Samples and Trials Establishing the Conformity of the Goods and Related Services to the Bidding Document	3.10.1	To establish the conformity of the Goods and Related Services to the Bidding Document, the Bidder shall furnish as part of its Bid, the documentary evidence (specifications, designs and drawings and conformance to BIS or other acceptable codes) and where asked for, supply samples, demonstrate trials or carry out tests as specified in Section V, Schedule of Supply and any amendment thereof issued in accordance with ITB Clause 2.3 [Amendment of Bidding Document].
		3.10.2	The documentary evidence may be in the form of literature, design/drawings or data etc., and shall consist of a detailed description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to those requirements, and if applicable, a duly signed statement of deviations and exceptions to the provisions of Section V [Schedule of Supply].
		3.10.3	Standards for workmanship, process, material, operation and maintenance and equipment, as well as references to brand names or catalogue numbers specified by the Procuring Entity in the Schedule of Supply, are the minimum acceptable standards and are intended to be descriptive only and not restrictive. The Bidder may offer other standards of better quality, brand names, and/ or catalogue numbers, provided that it demonstrates, to the Procuring Entity's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Schedule of Supply.
		3.10.4	Bids for articles, if any, specified in Section V [Schedule of Supply] shall be accompanied by two set of samples of the articles bid, where asked for, properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples for catering/ food items should be given in a suitable/ non-contaminating plastic box or in food grade polythene bags at the cost of the Bidder.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		3.10.5	Each sample shall be marked suitably either by writing on the sample or on a slip of durable paper securely fastened to the sample, the name of the Bidder and serial number of the item, of which it is a sample in the Schedule of Supply.
		3.10.6	Approved samples would be retained free of cost upto the period of six months after the expiry of the Contract. The Procuring Entity shall not be responsible for any damage, wear and tear or loss during testing, examination, etc., during the period these samples are retained. The samples shall be collected by the Bidder on the expiry of stipulated period. The Procuring Entity shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by the Procuring Entity and no claim for their cost, etc., shall be entertained.
		3.10.7	Samples not approved shall be collected by the Bidders. The Procuring Entity will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
3.11	Documents Establishing the Qualifications of the Bidder	3.11.1	To establish its qualifications to perform the Contract, the Bidder shall submit as part of its Technical Bid the documentary evidence indicated for each qualification criteria specified in Section III [Evaluation and Qualification Criteria].
3.12	Period of Validity of Bids	3.12.1	Bids shall remain valid for the period specified in the BDS after the Bid submission deadline date as specified by the Procuring Entity. A Bid valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
		3.12.2	In exceptional circumstances, prior to the expiration of the Bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 3.13 [Bid Security] it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

3.13	Bid Security	3.13.1	Unless otherwise specified in the BDS, the Bidder shall furnish as part of its Bid, a Bid Security in original form and in the amount and currency specified in the BDS.
		3.13.2	Bid Security shall be 2% of the estimated value of subject matter of procurement put to bid or as specified by the State Government. In case of Small Scale Industries of Rajasthan it shall be 0.5% of the value of the quantity offered for supply and in case of Sick Industries, other than Small Scale Industries, whose cases are pending with Board of Industrial and Financial Reconstruction, it shall be 1% of the estimated value of Bid.
		3.13.3	The Bid Security may be given in the form of cash, banker's cheque or bank demand draft or bank guarantee, in specified format, of a Scheduled Bank in India or deposit through eGRAS, as specified in BDS.
		3.13.4	In lieu of Bid Security, a Bid Securing Declaration shall be taken from Departments of the State Government and State Government Public Sector Enterprises, Autonomous bodies, Registered Societies, Cooperative Societies which are controlled or managed by the State Government and Public Sector Enterprises of Central Government. For the Bid Securing Declaration the Bidder shall use the form included in Section IV [Bidding Forms].
		3.13.5	Bid Security instrument or cash receipt of Bid Security or a Bid securing declaration shall necessarily accompany the sealed Bid. Any Bid not accompanied by Bid Security or Bid Securing Declaration, if not exempted, shall be liable to be rejected.
		3.13.6	Bid Security of a Bidder lying with the Procuring Entity in respect of other Bids awaiting decision shall not be adjusted towards Bid Security for the this Bid. The Bid Security originally deposited may, however, be taken into consideration in case Bids are re-invited.
		3.13.7	The issuer of the Bid Security and the confirmer, if any, of the Bid Security, as well as the form and terms of the Bid Security, must be acceptable to the Procuring Entity.
		3.13.8	Prior to presenting a submission, a Bidder may request the Procuring Entity to confirm the acceptability of proposed

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			issuer of a Bid Security or of a proposed confirmer, if different than as specified in Clause 3.13.3. The Procuring Entity shall respond promptly to such a request.
		3.13.9	The bank guarantee presented as Bid Security shall be got confirmed from the concerned issuing bank. However, the confirmation of the acceptability of a proposed issuer or of any proposed confirmer does not preclude the Procuring Entity from rejecting the Bid Security on the ground that the issuer or the confirmer, as the case may be, has become insolvent or is under liquidation or has otherwise ceased to be creditworthy.
		3.13. 10	The Bid Security of unsuccessful Bidders shall be refunded soon after final acceptance of the successful Bid and signing of Contract Agreement and submission of Performance Security by the successful Bidder pursuant to ITB Clause 6.5 [Performance Security].
		3.13. 11	The Bid Security taken from a Bidder shall be forfeited in the following cases, namely:- <ul style="list-style-type: none">i. when the Bidder withdraws or modifies his Bid after opening of Bids; orii. when the Bidder does not execute the agreement in accordance with ITB Clause 6.4 [Signing of Contract] within the specified time after issue of letter of acceptance/ placement of supply order; oriii. when the Bidder fails to commence the supply of the Goods or Related Services as per supply order within the time specified; oriv. when the Bidder does not deposit the Performance Security in accordance with ITB Clause 6.5 [Performance Security] in the specified time period after the supply / work order is placed; orv. if the Bidder breaches any provision of the Code of Integrity prescribed for Bidders specified in the Act, Chapter VI of the Rules and ITB Clause 1.3; orvi. if the Bidder does not accept the correction of its Bid Price pursuant to ITB Sub-Clause 5.5. [Correction of Arithmetical Errors].

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		3.13.12	In case of the successful Bidder, the amount of Bid Security may be adjusted in arriving at the amount of the Performance Security, or refunded if the successful Bidder furnishes the full amount of Performance Security. No interest will be paid by the Procuring Entity on the amount of Bid Security.
		3.13.13	The Bid Security of a Joint Venture, Consortium or Association must be in the name of the Joint Venture, Consortium or Association that submits the Bid. If the Joint Venture, Consortium or Association has not been legally constituted at the time of Bidding, the Bid Security shall be submitted in the names of all future partners as named in the letter of intent mentioned in ITB Sub-Clause 3.8.1 [Documents Establishing the Eligibility of the Bidder].
3.14	Format and Signing of Bid	3.14.1	The Bidder shall prepare one original of the Technical Bid and one original of the Financial Bid as described in ITB Clause 3.3 and clearly mark each "ORIGINAL - TECHNICAL BID" and "ORIGINAL – FINANCIAL BID". In addition, the Bidder shall submit copies of the Technical Bid and the Financial Bid, in the number specified in the BDS and clearly mark them "COPY NO... - TECHNICAL BID" and "COPY NO.... - FINANCIAL BID". In the event of any discrepancy between the original and the copies, the original shall prevail. The original and copies of Bid shall be properly bound. All pages shall be serially numbered.
		3.14.2	The original and all copies of the Bid shall be typed or written in ink and its all pages shall be signed by the Bidder or a person duly authorised to sign on behalf of the Bidder/ JV. This authorisation shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid.
		3.14.3	Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed by the person signing the Bid.
4. Submission and Opening of Bids			
4.1	Sealing and Marking of Bids	4.1.1	Bidders may submit their Bids by post or by hand or directly dropped in the Bid Box, where provided but if so specified in the Bidding Documents, Bidders shall submit their Bids electronically only. Bidders submitting their Bids electronically shall follow the electronic Bid submission procedure as specified on the State e-

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			Procurement Portal, http://eproc.rajasthan.gov.in .
		4.1.2	The Bidder shall enclose the original of the Technical Bid, the original of the Financial Bid, and each copy of the Technical Bid and each copy of the Price Bid, including alternative bids, if permitted in accordance with ITB Clause 3.5, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL - TECHNICAL BID", "ORIGINAL – FINANCIAL BID" and "COPY NO... - TECHNICAL BID" and "COPY NO.... – FINANCIAL BID", as appropriate. These envelopes containing the original and the copies shall then be enclosed in one single outer envelope.
		4.1.3	The inner and outer envelopes shall- (a) bear the name and complete address along with telephone/ mobile number of Bidder; (b) bear complete address of the Procuring Entity with telephone number, if any; (c) bear the specific identification of the bidding process pursuant to Notice Inviting Bids and the date and time of submission of Bid. Any additional identification marks as specified in the bidding document be also indicated; and (d) The outer envelopes and the inner envelopes containing the Technical Bids shall bear a warning not to be opened before the time and date for the opening of Technical Bids, as specified in ITB Clause 4.5 and Notice Inviting Bids. (e) The inner envelopes containing the Financial Bids shall bear a warning not to be opened until advised by the Procuring Entity in accordance with ITB Clause 4.5.
		4.1.4	If all envelopes are not sealed and marked as required, the Procuring Entity shall assume no responsibility about its consequences including misplacement and premature opening of the Bid.
		4.1.5	Alternative Bids, if permissible in accordance with ITB Clause 3.5.1 [Alternative Bids], shall be prepared, sealed, marked, and delivered with the inner envelopes marked in addition "ALTERNATIVE BID No:", as appropriate.
4.2	Deadline for Submission of Bids	4.2.1	Bids shall be received, by the person designated for the purpose by the Procuring Entity or directly dropped in the Bid Box, or submitted electronically, where asked for at the place and upto the time and date specified in the Notice

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			Inviting Bids or an extension issued thereof.
4.3	Late Bids	4.3.1	The Procuring Entity shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB Clause 4.2.1. Such Bids shall be declared late, rejected, and returned unopened to the Bidder.
4.4	Withdrawal, Substitution and Modification of Bids	4.4.1	A Bidder may withdraw, substitute or modify its Bid Proposal after it has been submitted by sending a written Withdrawal/ substitutions/ modifications etc. Notice, duly signed by the Bidder or its authorised representative, and shall include a copy of the authorisation in accordance with ITB Sub-Clause 3.14.2 [Format and Signing of Bid]. The corresponding Withdrawal, Substitution or Modification of the Bid must accompany the respective written Notice. All Notices must be: <ul style="list-style-type: none">i. submitted in accordance with ITB Sub-Clauses 3.14 [Format and Signing of Bid] and 4.1 [Sealing and Marking of Bids], the respective inner and outer envelopes shall be clearly marked " WITHDRAWAL"; "SUBSTITUTION", or "MODIFICATION" andii. received by the Procuring Entity prior to the deadline specified by the Procuring Entity for submission of Bids in accordance with ITB Sub-Clause 4.2.1 [Deadline for Submission of Bids].
		4.4.2	Bid Proposals that are withdrawn in accordance with ITB Sub- Clause 4.4.1 [Withdrawal of Bids] shall be returned unopened to the Bidders.
		4.4.3	No Bid shall be withdrawn, substituted or modified in the interval between the deadline for submission of the Bid and the expiration of the period of Bid validity specified in ITB Clause 3.12. [Period of Validity of Bids] or any extension thereof.
4.5	Bid Opening	4.5.1	The sealed Bid box shall be opened by the Bids opening committee constituted by the Procuring Entity at the time, date and place specified in the Bid Data Sheet in the presence of the Bidders or their authorized representatives, who choose to be present.

Section-I: Instruction to BiddersRFP for Integrated City Operation Centre in existing JSCL building

		4.5.2	The Bids receiving person shall also hand over all the Bids received by him up to the time and date for submission of Bids to the Convener of Bids opening committee and obtain his signature in the Bids receipt register.
		4.5.3	The Bids opening committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
		4.5.4	If electronic Bidding is adopted, specific electronic Bids opening procedure as specified on the State e-Procurement Portal shall be followed. The Bidders may witness the electronic Bid opening procedure online.
		4.5.5	<p>The Bids shall be opened by the Bids opening committee in the presence of the Bidders or their authorised representatives who choose to be present. All outer envelopes and inner envelopes containing Technical Bids shall be signed with date by the members of the committee in token of verification of the fact that they are sealed, and then opened. The envelopes shall be numbered as a/n, where 'a' denotes the serial number at which the Bid envelope has been taken for opening and 'n' denotes the total number of Bids received by specified time.</p> <p>The Financial Bids will remain unopened and will be held in custody of the Procuring Entity until the time of opening of the Financial Bids. The date, time, and location of the opening of Financial Bids will be advised in writing by the Procuring Entity.</p>
		4.5.6	The Bids opening committee shall prepare a list of the Bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding Bidders' names and addresses. The authority letters brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bids opening committee with date and time of opening of the Bids.
		4.5.7	First, envelopes marked as "WITHDRAWAL" shall be opened, read out, and recorded and the envelope containing the corresponding Technical Bid shall not be opened, but returned to the Bidder. No Bid shall be permitted to be withdrawn unless the corresponding withdrawal notice

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			<p>contains a valid authorisation to request the withdrawal and is readout and recorded at Bid opening. If the withdrawal notice is not accompanied by the valid authorisation, the withdrawal shall not be permitted and the corresponding Bid shall be opened.</p> <p>Next, envelopes marked as "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/ or Substitution Financial Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened, read out, and recorded. Substitution Financial Bids will remain unopened in accordance with ITB Sub-Clause 4.5.5. No Bid shall be substituted unless the corresponding substitution notice contains a valid authorisation to request the substitution and is read out and recorded at Bid opening.</p> <p>Outer envelopes marked as "MODIFICATION" shall be opened thereafter. No Technical Bid and/ or Financial Bid shall be modified unless the corresponding modification notice contains a valid authorisation to request the modification and is read out and recorded at opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Bids, both Original as well as Modification, will remain unopened in accordance with ITB Sub-Clause 4.5.5.</p>
		4.5.8	<p>All other envelopes containing the Technical Bids/ Proposals shall be opened one at a time and the following read out and recorded-</p> <ol style="list-style-type: none">i. the name of the Bidder;ii. whether there is a modification or substitution;iii. whether proof of providing Bid Security or Bid Securing Declaration, if required, payment of price of the Bidding Document, user charges or processing fee, where applicable, have been enclosed;iv. any other details as the Bids opening committee may consider appropriate. <p>After all the Bids have been opened, they shall be initialed and dated on the first page and other important papers of the each Bid by the members of the Bids opening committee.</p>

Section-I: Instruction to BiddersRFP for Integrated City Operation Centre in existing JSCL building

		4.5.9	Only Technical Bids including alternative Technical Bids, if permitted, which are read out and recorded at the bid opening shall be considered for evaluation. No Bid shall be rejected at the time of opening of Technical Bids except the late Bids, Alternative Bids (if not permitted) and Bids not accompanied with the proof of payment or instrument of the required price of Bidding Document, processing fee or user charges (in case of e-procurement) and Bid Security.
		4.5.10	The Bids opening committee shall prepare a record of opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, modification, or alternative offer (if they were permitted), any conditions put by Bidder and the proof of payment of price of Bidding documents, processing fee or user charges and Bid Security. The Bidders or their representatives, who are present, shall sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. The members of the Bids opening committee shall also sign the record with date.
		4.5.11	After completion of the evaluation of the Technical Bids, the Procuring Entity shall invite Bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified to attend the opening of the Financial Bids. The date, time, and location of the opening of Financial Bids will be advised in writing by the Procuring Entity. Bidders shall be given reasonable notice of the date of opening of Financial Bids.
		4.5.12	The Procuring Entity shall notify Bidders in writing whose Technical Bids have been rejected on the grounds of being substantially non-responsive and not qualified in accordance with the requirements of the Bidding Document and return their Financial Bids unopened after signing of the Contract agreement with the successful bidder.
		4.5.13	The Procuring Entity shall conduct the opening of Financial Bids of all Bidders who submitted substantially responsive Technical Bids and have qualified in evaluation of Technical Bids, in the presence of Bidders or their representatives who choose to be present at the address, date and time specified by the Procuring Entity.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		4.5.14	All envelopes containing the Financial Bids shall be opened one at a time. After all the Bids have been opened, they shall be initialed and dated on the first page of the each Bid by the members of the Bids opening committee. All the pages of the Price Schedule and letters, Bill of Quantities attached shall be initialed and dated by the members of the committee. Key information such as prices, delivery period, etc. shall be encircled and unfilled spaces in the Bids shall be marked and signed with date by the members of the Bids opening committee. The original and additional copies of the Bid shall be marked accordingly. Alterations/ corrections/ additions/ over-writings shall also be signed to make it clear that such alteration, etc. were existing in the Bid at the time of opening.
		4.5.15	The Bids opening committee shall prepare a record of opening of Financial Bids that shall include as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification, the Bid Price (per lot, if applicable), any discounts and alternative offers (if they were permitted). The Bidders or their representatives, who are present, shall sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. The members of the Bids opening committee shall also sign the record with date.
5 Evaluation and Comparison of Bids			
5.1	Confidentiality	5.1.1	Information relating to the examination, evaluation, comparison, and post-qualification of Bids, and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders.
		5.1.2	Any attempt by a Bidder to influence the Procuring Entity in the examination, evaluation, comparison, and post qualification of the Bids or Contract award decisions may result in the rejection of its Bid, in addition to the legal action which may be taken by the Procuring Entity under the Act and the Rules.
		5.1.3	Notwithstanding ITB Sub-Clause 5.1.2 [Confidentiality], from the time of opening the Bid to the time of Contract award, if any Bidder wishes to contact the Procuring Entity on any matter related to the Bidding process, it

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			should do so in writing.
		5.1.4	In addition to the restrictions specified in section 49 of the Act, the Procuring Entity, while procuring a subject matter of such nature which requires the procuring Entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.
5.2	Clarification of Technical or Financial Bids	5.2.1	To assist in the examination, evaluation, comparison and qualification of the Technical or Financial Bids, the Bid evaluation committee may, at its discretion, ask any Bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the Bidder shall be in writing.
		5.2.2	Any clarification submitted by a Bidder with regard to his Bid that is not in response to a request by the Bid evaluation committee shall not be considered.
		5.2.3	No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetical errors discovered by the Bid evaluation committee in the evaluation of the financial Bids.
		5.2.4	No substantive change to qualification information or to a submission, including changes aimed at making an unqualified Bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.
5.3	Deviations, Reservations and Omissions in Technical or Financial Bids	5.3.1	During the evaluation of Technical or Financial Bids, the following definitions shall apply: i. "Deviation" is a departure from the requirements specified in the Bidding Document; ii. "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and iii. "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

5.4	Nonmaterial Nonconformities in Technical or Financial Bids	5.4.1	Provided that a Technical or Financial Bid is substantially responsive, the Procuring Entity may waive any nonconformity (with recorded reasons) in the Bid that do not constitute a material deviation, reservation or omission.
		5.4.2	Provided that a Technical or Financial Bid is substantially responsive, the Procuring Entity may request that the Bidder to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Request for information or documentation on such nonconformities shall not be related to any aspect of the Financial Proposal of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
5.5	Correction of Arithmetical Errors in Financial Bid	5.5.1	Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis: <ul style="list-style-type: none">i. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;ii. 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; andiii. if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.
		5.5.2	If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

5.6	Preliminary Examination of Technical or Financial Bids	5.6.1	The Procuring Entity shall examine the Technical or Financial Bids to confirm that all documents and technical documentation requested in ITB Sub-Clause 3.3 [Documents Comprising the Bid] have been provided, and to determine the completeness of each document submitted.
		5.6.2	The Procuring Entity shall confirm, following the opening of the Technical or Financial Bids, that the following documents and information have been provided : <ul style="list-style-type: none">i Bid is signed, as per the requirements listed in the Bidding Document;ii Bid has been sealed as per instructions provided in the Bidding Document;iii Bid is valid for the period, specified in the Bidding Document;iv Bid is accompanied by Bid Security or Bid Securing Declaration;v Bid is unconditional and the Bidder has agreed to give the required performance Security;vi. Bid is submitted in the required Bidding Forms as per Section IV [Bidding Forms];vii. Price Schedules in the Financial Bid are in accordance with ITB Clauses 3.4 [Bid Submission Sheets and Price Schedules], and ITB Clause 3.6 [Bid Prices and Discounts] and where permitted, Alternative Bids in terms of ITB Clause 3.5 [Alternative Bids];viii. written confirmation of authorisation to commit the Bidder;ix. Manufacturer's Authorisation, if applicable;x. Declaration by the Bidder in compliance of Section 7 and 11 of the Act;xi. other requirements, as specified in the Bidding Document are fulfilled.
5.7	Responsiveness of Technical or Financial Bids	5.7.1	The Procuring Entity's determination of the responsiveness of a Technical or Financial Bid is to be based on the contents of the Bid itself, as defined in ITB Clause 3.3 [Documents Comprising the Bid].

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		5.7.2	<p>A substantially responsive Technical or Financial Bid is one that meets without material deviation, reservation, or omission to all the terms, conditions, and specifications of the Bidding Document. A material deviation, reservation, or omission is one that:</p> <p>(a) if accepted, would-</p> <ul style="list-style-type: none">i. affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in Section V, Schedule of Supply; orii. limits in any substantial way, inconsistent with the Bidding Document, the Procuring Entity's rights or the Bidder's obligations under the proposed Contract; or <p>(b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.</p>
		5.7.3	<p>The Procuring Entity shall examine the technical aspects of the Bid in particular, to confirm that requirements of Section V, Schedule of Supply have been met without any material deviation or reservation.</p>
		5.7.4	<p>If a Technical or Financial Bid is not substantially responsive to the Bidding Document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
5.8	Examination of Terms and Conditions of the Technical or Financial Bids	5.8.1	<p>The Procuring Entity shall examine the Bids to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.</p>
		5.8.2	<p>The Procuring Entity shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clauses 3.3 [Documents Comprising the Bid] and 3.10 [Documents Establishing the Conformity of the Goods and Related Services to the Bidding Document], to confirm that all requirements specified in Section V, Schedule of Supply of the Bidding Document and all amendments or changes requested by the Procuring Entity in accordance with ITB Clause 2.3 [Amendment of Bidding Document], have been met without any material deviation or reservation.</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

5.9	Evaluation of Qualification of Bidders in Technical Bids	5.9.1	The determination of qualification of a Bidder in evaluation of Technical Bids shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 3.11 [Documents Establishing the Qualifications of the Bidder], and in accordance with the qualification criteria indicated in Section III, Evaluation and Qualification Criteria. Factors not included in Section III, shall not be used in the evaluation of the Bidder's qualification.
5.10	Price and/ or Purchase Preference	5.10.1	Price and/ or Purchase Preference, if applicable, shall be given in accordance with the policy of State Government notified / prevalent at the time of issue of NIB.
5.11	Evaluation of Financial Bids	5.11.1	The Procuring Entity shall evaluate each Financial Bid, the corresponding Technical Bid of which has been determined to be substantially responsive.
		5.11.2	To evaluate a Financial Bid, the Procuring Entity shall only use all the criteria and methodologies defined in this Clause and in Section III, Evaluation and Qualification Criteria. No other criteria or methodology shall be permitted.
		5.11.3	To evaluate a Financial Bid, the Procuring Entity shall consider the following: i. the Bid Price quoted in the Financial Bid; ii. price adjustment for correction of arithmetical errors in accordance with ITB Clause 5.5. [Correction of Arithmetical Errors]; iii. price adjustment due to discounts offered, if permitted, in accordance with ITB Sub-Clause 3.6.4 [Bid Prices and Discounts]; and iv. price and/ or purchase preference in accordance with ITB Clause 5.10 [Price and/ or Purchase Preference] v. price adjustment due to application of all the evaluation criteria specified in Section III [Evaluation and Qualification Criteria]. These criteria may include factors related to the characteristics, performance, and terms and conditions of procurement of the Goods and Related Services which shall be expressed to the extent practicable in monetary terms to facilitate comparison of the Bids, unless otherwise specified

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			Section III [Evaluation and Qualification Criteria].
		5.11.4	<p>i. Unless otherwise specified in BDS, the evaluation of the total Price of a Bid shall be the price of delivering the Goods and Related Services at the site(s) or place(s) of delivery specified in Section V [Schedule of Supply], including all taxes and duties payable on them, insurance, transport, loading, unloading, erecting, stacking, testing, commissioning, etc.</p> <p>ii. In comparing the rates quoted by firms from outside Rajasthan and those in Rajasthan but not entitled to Price Preference under ITB Clause 5.10, the element of Rajasthan VAT shall be excluded whereas that of Central Sales Tax shall be included for comparison of rates.</p> <p>iii. While comparing the rates in respect of firms within Rajasthan the element of Rajasthan Sales Tax / VAT shall be included.</p>
5.12	Comparison of Bids	5.12.1	The Procuring Entity shall compare all substantially responsive Bids to determine the lowest-evaluated Bid, in accordance with ITB Clause 5.11 [Evaluation of Financial Bids].
5.13	Post qualification of the Bidder	5.13.1	The Procuring Entity shall determine to its satisfaction that the Bidder that is selected as the lowest Bidder is qualified to perform the Contract satisfactorily.
5.14	Negotiations	5.14.1	Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-Bid stage. All clarifications needed to be sought shall be sought in the pre-Bid stage itself.
		5.14.2	<p>Negotiations may, however, be undertaken only with the lowest Bidder under the following circumstances-</p> <p>i. when ring prices have been quoted by the Bidders for the subject matter of procurement; or</p> <p>ii. when the rates quoted vary considerably and considered much higher than the prevailing market rates.</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		5.14.3	The Bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
		5.14.4	The lowest Bidder shall be informed about negotiations in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the Bid evaluation committee, after recording reasons, may reduce the time, provided the lowest Bidder has received the intimation and consented to holding of negotiations.
		5.14.5	Negotiations shall not make the original offer made by the Bidder inoperative. The Bid evaluation committee shall have option to consider the original offer in case the Bidder decides to increase rates originally quoted or imposes any new terms or conditions.
		5.14.6	In case of non-satisfactory achievement of rates from lowest Bidder, the Bid evaluation committee may choose to make a written counter offer to the lowest Bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest Bidder, then to the third lowest Bidder and so on in the order of their initial standing in the bid evaluation till the counter offer is accepted and supply order may be awarded to the Bidder who accepts the counter-offer.
		5.14.7	In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.
5.15	Procuring Entity's Right to Accept Any Bid, and to Reject Any or All Bids	5.15.1	The Procuring Entity reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract award without assigning any reasons thereof and without thereby incurring any liability to the Bidders.
6. Award of Contract			
6.1	Procuring Entity's Right to Vary Quantities	6.1.1	If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

		6.1.2	Repeat order for additional quantities may be placed within one month of completion of the supply. The value of the additional quantities may be upto 50% of the value of goods of the original Contract at the rates and conditions given in the Contract, provided the original supply order was given after inviting open competitive bids. Delivery period of goods may be proportionately increased.
6.2	Dividing quantities among more than one Bidder at the time of award	6.2.1	As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted. Counter offer to first lowest Bidder (L1), in order to arrive at an acceptable price, shall amount to negotiation. However, any counter offer thereafter to second lowest Bidder (L2), third lowest Bidder (L3) etc., (at the rates accepted by L1) in case of splitting of quantities shall not be deemed to be a negotiation.
6.3	Acceptance of the successful Bid and award of contract	6.3.1	The Procuring Entity after considering the recommendations of the Bid Evaluation Committee and the conditions of Bid, if any, financial implications, samples, test reports, etc., shall accept or reject the successful Bid.
		6.3.2	Before award of the Contract, the Procuring Entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
		6.3.3	A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
		6.3.4	The Procuring Entity shall award the contract to the Bidder whose offer has been determined to be the lowest in accordance with the evaluation criteria set out in Section III, Evaluation and Qualification Criteria and if the Bidder has been determined to be qualified to perform the contract satisfactorily.

Section-I: Instruction to BiddersRFP for Integrated City Operation Centre in existing JSCL building

		6.3.5	Prior to the expiration of the period of validity of Bid, the Procuring Entity shall inform the successful Bidder in writing, by registered post or email, that its Bid has been accepted.
		6.3.6	If the issuance of formal letter of acceptance (LOA) is likely to take time, in the meanwhile a Letter of Intent (LOI) may be sent to the successful Bidder. The acceptance of an offer is complete as soon as the letter of acceptance or letter of intent is posted and/ or sent by email (if available) to the address of the successful Bidder given in its Bid.
6.4	Signing of Contract	6.4.1	In the written intimation of acceptance of its Bid sent to the successful Bidder, it shall also be asked to execute an agreement in the format given in the Bidding Document on a non judicial stamp of requisite value at his cost and deposit the amount of Performance Security or a Performance Security Declaration, as applicable, within a period specified in the BDS or where the period is not specified in the BDS, then within fifteen days from the date on which the LOA or LOI is dispatched to the Bidder. Until a formal contract is executed, LOA or LOI shall constitute a binding contract.
		6.4.2	If the Bidder, whose Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required Performance Security or Performance Security Declaration, as the case may be, within the specified time period, the Procuring Entity shall forfeit the Bid Security of the successful bidder/ execute the Bid Securing Declaration and take required action against it as per the provisions of the Act and the Rules.
		6.4.3	The Bid Security and samples, if any, of the Bidders whose Bids could not be accepted shall be refunded/ returned soon after the contract with the successful Bidder is signed and his Performance Security is obtained.

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

6.5	Performance Security	6.5.1	Performance Security shall be solicited from the successful Bidder except Department of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned, controlled or managed by the State Government and undertakings of Central Government. However, a Performance Security Declaration shall be taken from them. The State Government may relax the provision of Performance Security in particular procurement.
		6.5.2	The amount of Performance Security shall be five percent, or as specified in the BDS, of the amount of the supply order. In case of Small Scale Industries of Rajasthan it shall be one percent of the amount of quantity ordered for supply of Goods and in case of sick industries, other than Small Scale Industries, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be two percent of the amount of supply order. The currency of Performance Security shall be Indian Rupees, if otherwise not specified in BDS.
		6.5.3	Performance Security shall be furnished in one of the following forms- i. deposit through eGRAS; or ii. Bank Draft or Banker's Cheque of a Scheduled Bank in India; or iii. National Savings Certificates and any other script/ instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of Bid and formally transferred in the name of the Procuring Entity with the approval of Head Post Master; or iv. Bank guarantee. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as specified in ITB Clause 3.13 [Bid Security]; or v. Fixed Deposit Receipt (FDR) of a Scheduled Bank. It shall be in the name of the Procuring Entity on account of Bidder and discharged by the Bidder in advance. The Procuring Entity shall ensure before accepting the Fixed Deposit Receipt that the Bidder furnishes an undertaking from the bank to make payment/ premature payment of the Fixed Deposit Receipt on demand to the Procuring Entity without requirement of consent of the Bidder concerned. In the event of forfeiture of the Performance Security, the Fixed Deposit shall be forfeited along with

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

			interest earned on such Fixed Deposit.
		6.5.4	Performance Security furnished in the form of a document mentioned at options (ii) to (v) of Sub-Clause 6.5.3 above, shall remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the Bidder, including warranty obligations and operation and / or maintenance and defect liability period, if any.
		6.5.5	Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Procuring Entity may either cancel the procurement process or if deemed appropriate, award the Contract at the rates of the lowest Bidder, to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Procuring Entity to be qualified to perform the Contract satisfactorily.
		6.5.6	<p>Forfeiture of Performance Security: The amount of Performance Security in full or part may be forfeited in the following cases :-</p> <ul style="list-style-type: none">i. when the Bidder does not execute the agreement in accordance with ITB Clause 6.4 [Signing of Contract] within the specified time period; after issue of letter of acceptance/ placement of supply order; orii. when the Bidder fails to commence the supply of the Goods or Related Services as per supply order within the time specified; oriii. when Bidder fails to commence or make complete supply of the Goods or Related Services satisfactorily within the time specified; oriv. When any terms and conditions of the contract is breached; orv. Failure by the Bidder to pay the Procuring Entity any established dues under any other contract; orvi. if the Bidder breaches any provision of the Code of Integrity prescribed for Bidders in the Act and Chapter VI of the Rules and this Bidding Document. <p>Notice of reasonable time will be given in case of forfeiture of Performance Security. The decision of the Procuring Entity in this regard shall be final.</p>

Section-I: Instruction to Bidders

RFP for Integrated City Operation Centre in existing JSCL building

7. Grievance Handling Procedure during Procurement Process (Appeals)

7	Grievance handling procedure during procurement process	7.1	Any grievance of a Bidder pertaining to the procurement process shall be by way of filing an appeal to the First or Second Appellate Authority, as the case may be, as specified in the BDS, in accordance with the provisions of chapter III of the Act and chapter VII of the Rules and as given in Appendix A to these ITB.
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Appendix A: Grievance Handling Procedure during Procurement Process (Appeals)

(1) Filing an appeal

(a) If any Bidder or prospective Bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued thereunder, he may file an appeal to the First Appellate Authority as specified in the Bid Data Sheet, within a period of ten days from the date of such decision, action, or omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved: Provided that after the declaration of a Bidder as successful in terms of section 27 of the Act, the appeal may be filed only by a Bidder who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bid before the opening of the Financial Bid, an appeal related to the matter of Financial Bid may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(b) After hearing the parties, the First Appellate Authority shall dispose of the appeal and pass an order within a period of 30 days of the date filing of the appeal.

(c) If the First Appellate Authority fails to dispose of the appeal within the period 30 days of the date of filing the appeal or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed by the First Appellate Authority, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to the Second Appellate Authority as specified in the Bid Data Sheet, within fifteen days. The Second Appellate Authority, after hearing the parties, shall dispose of the appeal and pass an order within a period of 30 days which shall be final and binding on the parties.

(2) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) determination of need of procurement;
- (b) provisions limiting participation of Bidders in the bidding process;
- (c) the decision of whether or not to enter into negotiations;
- (d) cancellation of a procurement process;
- (e) applicability of the provisions of confidentiality.

(3) Form and procedure of filing an appeal

- (a) An appeal shall be in the annexed Form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- (c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.

(4) Fee for filing appeal

- (a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's Cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(5) Procedure for disposal of appeals

- (a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,
 - (i) hear all the parties to appeal present before him; and
 - (ii) peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall be placed on the State Public Procurement Portal.

Annexure

FORM No. 1

[See rule 83]

Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012

Appeal Noof

Before the (First / Second Appellate Authority)

1. Particulars of appellant:

(i) Name of the appellant:

(ii) Official address, if any:

(iii) Residential address:

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

(1).

(2). (3).

3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

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

5. Number of affidavits and documents enclosed with the appeal:

6. Grounds of appeal:

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.....

..... (Supported by an affidavit)

7. Prayer:

.....
.....
.....

Place

Date.....

Appellant's Signature

SECTION-II: BIDDING DATA SHEET

The following specific data for the works shall complement, amend, or supplement the provisions in Instructions to Bidders – Section I. Whenever there is a conflict, the provisions herein shall prevail over those in the Instructions to Bidders.

INSTRUCTIONS TO BIDDERS CLAUSE REFERENCE

A. Introduction

ITB. 1.1.1	The Number of the Invitation for Bids (NIT) is: JSCL/Smart City Works/30/2018-19 The Procuring Entity is: Jaipur Smart City Limited, Rajasthan Name of Work: Integrated City Operation Centre in existing JSCL building (Detailed Scope of work has been defined in Section V: Procuring Entity's Requirement)
1.1.2	Period of Completion: The Physical Works shall be completed in its entirety within 45 days from the Start Date, which shall be the date of issue of the Notice to proceed or such other Start Date as may be specified in the Notice to proceed. The post complementation operation and maintenance will be for 5 (Five) years .
1.1.3	Estimated Cost of work is: Rs. 4.12 Crore.
ITB 1.4.1	Joint Ventures / Consortium are permitted comprising not more than 3 (three) firms/companies. The minimum equity under JV / Consortium of lead firm should be min 51% and other firm min 20% each.
ITB 1.4.2	"Bidders of Indian Nationality" are only permissible.
ITB 1.4.5	The bidder may not be manufacturer.
ITB 1.4.8	Not applicable
ITB 1.4.9	Each bidder shall upload on-line / submit only one bid for one work. A bidder who submits or participates in more than one bid for the particular Works will be disqualified.

B. Bidding Documents

ITB 2.1.3	This is an "on-line tender". Therefore, tender documents in physical form shall not be available for sale but can be downloaded from the website and pay cost (Rs 20,000/-) while submitting the filled-up Bidding document to the Procuring Entity along with the processing fee of Rs 1,000/- separately in favour of RISL, Jaipur. The bidder should submit, by date & time specified in bid document, in original, hard copies of (i) cost of bid document as Rs. 20,000/- for each work in the form of DD/Banker's Cheque of a scheduled bank in India or eGRAS in the name of Chief Executive Officer, Jaipur Smart City Limited payable at Jaipur; (ii) Bid processing fee of Rs. 1,000/- for each work in the form of DD in the name of Managing Director, RISL, Jaipur payable at Jaipur; (iii) Bid Security as per RTPP; (iv) Letter of Technical Bid; (v) Power of Attorney; and (vi) Joint Venture Agreement, if applicable. The bidder should upload scanned copies of these documents on e-procurement web-site along with their technical bids.
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Volume 1 Section-II: Bidding Data Sheet

RFP for Integrated City Operation Centre in existing JSCL building

ITB 2.2.1	<p>For Clarification purposes only, the Procuring Entity's address is: OFFICE OF THE CHIEF EXECUTIVE OFFICER Jaipur Smart City Limited. JMC Building, Pt Deendayal Upadhyay Bhawan Lal Kothi, Tonk Road, Jaipur-302016 Phone No. 0414-2741346/2741347, E-Mail ID: jscljaipur@gmail.com</p> <p>A Bidder requiring any clarification of the Bidding Document shall contact the Procuring Entity in writing at the Procuring Entity's address indicated in the BDS. The Procuring Entity will respond in writing to any request for clarification, within seven days, provided that such request is received no later than seven (06) days prior to the deadline for submission of Bids as specified in ITB Sub-Clause 4.2.1 [Deadline for Submission of Bids]. The Procuring Entity shall forward copies of its response to all Bidders who have acquired/ procured the Bidding Document directly from it including a description of the inquiry but without identifying its source. It shall also be placed on the websites of State Public Procurement Portal and should the Procuring Entity deem it necessary to amend the Bidding Document as a result of a clarification, it shall do so following the procedure under ITB Clause 2.3 [Amendment of Bidding Document].</p>
ITB 2.2.2	<p>There will be no pre-bid meeting.</p> <p>No Site visit shall be organised by the procuring entity. However, bidders are advised to visit the sites at their own expenses and if any support is required, shall be provided by the Executive Officer/Engineer.</p>
ITB 2.2.3	Not Applicable
ITB 2.3.1	<p>Any addendum issued shall be part of the Bidding Document and shall be uploaded on the State Public Procurement Portals http://sppp.rajasthan.gov.in/ and http://eproc.rajasthan.gov.in</p>
ITB 2.3.2	<p>To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Entity may, at its discretion, extend the deadline for the submission of the Bids, pursuant to ITB Sub-Clause 4.2 [Deadline for Submission of Bids], under due intimation to the Bidders by uploading it on the State Public Procurement Portal and its e-procurement portal.</p>

C. Preparation of Bids

ITB 3.2.1	The language of the bid shall be: English
ITB 3.3.1	The online Bid shall comprise of two parts submitted simultaneously, one containing the Technical Bid/ Proposal and the other the Financial or Price Bid/ Proposal.
ITB 3.3.2	The Bidder shall submit the forms, declarations and documents, as specified in Section IV of Bid Document, with the Technical Bid:
ITB 3.3.3	<p>The Bidder shall upload the following documents with its Financial Bid:</p> <ol style="list-style-type: none"> Financial Proposal Submission Bill of Quantities And other details as mentioned in Sec IV of Vol-1
ITB 3.5.1	<p>Add following:</p> <ol style="list-style-type: none"> The bill of quantities will be on two parts Part A (BSR items based on RUIDP 2017) and part B (based on PWD 2016 and Non BSR items). The Bidder will quote percentage above or below the amount for part A. For Part B Bidder will quote the rates for items.

Volume 1 Section-II: Bidding Data Sheet

RFP for Integrated City Operation Centre in existing JSCL building

ITB 3.6.7	The Prices quoted by the Bidder shall be fixed. However, all variations in taxes and duties occurring after 28 days of the final submission of the bid shall be adjusted to the Bidder's price. Applicable GST shall be borne by the Procuring Entity.
ITB 3.12	The Bid validity period shall be 120 (One hundred and twenty) days from deadline for submission of bids.
ITB 3.13.2	Add following: Bid security shall be of the value Rs. 8.24 lacs. (Rupees Eight Lac and Twenty-Four thousand).
ITB 3.13.3	A Bid Security shall be provided as a part of the bid in the form of a Banker's Cheque or Demand Draft or Bank Guarantee of a Scheduled Bank in India, in specified format which shall remain valid for a period of 45 (forty-five) days beyond the validity of the bid.
ITB 3.14.1	Only Digital signed copy shall be submitted through e-procurement website.
ITB 3.14.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: Power of Attorney

D. Submission and Opening of Bids

ITB 4.1.1	<p>For bid submission purposes only, the Procuring Entity's address is :</p> <p>OFFICE OF THE CHIEF EXECUTIVE OFFICER</p> <p>Jaipur Smart City Limited. JMC Building, Pt Deendayal Upadhyay Bhawan Lal Kothi, Tonk Road, Jaipur-302016 Phone No. 0414-2741346/2741347E-Mail ID: jscljaipur@gmail.com</p> <p>Bidders shall submit their Bids electronically only.</p> <p>The Bidders shall submit the Bid online with all pages numbered serially and by giving an index of submissions. Each page of the submission shall be initialled by the Authorised Representative of the Bidder as per the terms of the tender. The Bidder shall be responsible for documents accuracy and correctness as per the version uploaded by the Procuring Entity and shall ensure that there are no changes caused in the content of the downloaded document. The bidder shall follow the following instructions for online submission:</p> <ul style="list-style-type: none">• Bidder who wants to participate in bidding will have to procure digital certificate as per IT Act to sign their electronic bids. Offers which are not digitally signed will not be accepted. Bidder shall submit their offer in electronic format on above mentioned website after digitally signing the same.• Cost of bid document is Rs.20,000/- per tender should be deposited by Non Refundable Demand Draft drawn in favor of Chief Executive Officer, Jaipur Smart City Limited, Jaipur payable at Jaipur, whereas the Processing fee Rs. 1,000/- should be deposited by Non-Refundable Demand Draft drawn in favour of MD, RISL, Jaipur payable at Jaipur. Original documents along with above mentioned fees and other documents as per bid conditions, has to be deposited up to 05.00 PM on 21st February 2018 before opening of technical bid.• The Procuring Entity will not be responsible for any mistake occurred at the time of uploading of bid or thereafter.• If holiday is declared on submission & opening date of tender the scheduled activity will take place on next working day.
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Volume 1 Section-II: Bidding Data Sheet

RFP for Integrated City Operation Centre in existing JSCL building

ITB 4.1.2	Bids are required to be submitted in Electronic Format, it shall be submitted on the e-procurement portal: http://eproc.rajasthan.gov.in
ITB 4.2.1	The Deadline for electronic Bid submission is Date: 20th February 2018 Time: 05:00 PM
ITB 4.4.1,4.4.5	The online Bid opening shall take place at: OFFICE OF THE CHIEF EXECUTIVE OFFICER Jaipur Smart City Limited. JMC Building, Pt Deendayal Upadhyay Bhawan, Lal Kothi, Tonk Road, Jaipur-302016 Phone No. 0414-2741346/2741347E-Mail ID: jslcjaipur@gmail.com The tendering process shall be conducted online only; DD/BC tender fee, processing fee and Bid Security shall be submitted physically up to deadline described in tender document.
ITB 4.5.4	The Procuring Entity will open the Financial proposal as per e-tendering procedure.

E. Award of Contract

ITB 6.4.1	The period within which the Performance Security is to be submitted by the successful Bidder and the Contract Agreement is to be signed by him from the date of issue of Letter of Acceptance is 30 Days.
ITB 6.4.3	The procuring entity shall promptly return the bid security after the earliest of the following events, namely: <ol style="list-style-type: none"> 1. The expiry of validity of bid security 2. The execution of agreement for procurement and performance security is furnished by the successful bidder; 3. The cancellation of the procurement process; or 4. The withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.
ITB 6.5.2	Performance Security amounting to total 5% of contract value and provisional sum) for all bidders irrespective of whether Government Owned Company/ Undertakings/ Corporations/ Autonomous Bodies/ Co-operative Societies, etc. shall be submitted as follows: <ol style="list-style-type: none"> (i) Contractor shall submit Performance Security in advance at the time of signing agreement in form of Bank Guarantee as per latest rules under RTPPP act. The Bank Guarantee should be issued by any nationalized/ schedule bank and shall remain valid up to 60 days beyond defect liability period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and encashable/ invocable at Town for which tenders are invited or submitted at Jaipur. However, additional security amount, when deposited by the Contractor, shall be released after completion of works, if so requested by the Contractor. (ii) If there is no reason to retain the Performance Security, it shall be returned back to the contractor within 60 days after the satisfactory completion of the defect liability period.
7.1	First Appellate Authority shall be: Dy. Secretary/Joint secretary, LSGD, Rajasthan Second Appellate Authority shall be: Secretary/Principal Secretary, LSGD, Rajasthan.

SECTION III: EVALUATION AND QUALIFICATION CRITERIA

A. Evaluation Criteria

1.1 The successful Bid will be the lowest evaluated responsive Bid, which qualifies technical evaluation.

1.2 Adequacy of Technical Proposal

Evaluation of the Bidder's Technical Proposal will include an assessment of the Bidder's technical capacity to mobilize key equipment and personnel for the contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail.

1.3 Quantifiable Nonconformities, Errors and Omissions.

The evaluated cost of quantifiable non-conformities, errors and/or omissions is determined as follows:

"Pursuant to ITB Clause 5.4, the cost of all quantifiable nonmaterial nonconformities or omissions shall be evaluated. The Procuring Entity will make its own assessment of the cost of any nonmaterial nonconformities and omissions for the purpose of ensuring fair comparison of bids."

[For guidance: The cost of minor omissions or missing items should be added to the Bid Price to allow for bid comparison on an equal basis. The price adjustment should be based on a reasonable estimate of the cost by the executing agency, engineer, consultant or bid evaluation committee, taking into consideration the corresponding quoted prices from other conforming bids. The price adjustment may be based on the price of the item quoted by the next lowest qualified bidder].

B. Qualification Criteria:

1. Eligibility:

	Criteria	Compliance Requirements				Documents Submission Requirements
		Single Entity	Joint Venture			
	Requirement		All Partners Combined	Each Partner	One partner	
i) Nationality	Nationality with accordance with ITB sub Clause 1.4.2	Must meet requirement	Must meet requirement	Must meet requirement	Not Applicable	As per forms ELI 1, ELI 2 with attachments
ii) Conflict of Interest	No conflicts of interest in accordance with ITB Sub-clause 1.4.3	Must meet requirement	Must meet requirement	Must meet requirement	Not Applicable	Letter of Bid
iii) Debarment/ Transgression by any Procuring Entity	Must declare	Must meet requirement	Must meet requirement	Must meet requirement	Not Applicable	Declaration form given in the Bidding Document

2. Pending Litigation:

Pending Litigation	All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than 50 percent of the Bidder's net worth.	Must meet requirement by itself or as partner to past or existing JV	Not Applicable	Must meet requirement by itself or as partner to past or existing JV	Not Applicable	Form LIT 1
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NOTE: CA certificate clearly mentioning with calculation that pending litigation in total not more than 50% of Bidder's net worth.

3. Financial Situation:

Criteria	Compliance Requirements		Documents Submission
	Single	Joint Venture (permitted)	

Volume-I Section-III: Evaluation and Qualification Criteria
RFP for Integrated City Operation Centre in existing JSCL building

Requirement	Entity	All Partners Combined	Lead Member	Each Member	Requirements
3.1 Historical Financial Performance					
Net Worth					
Net Worth for the Financial Year 2016-17 (from latest audited balance sheet) should be positive. (Certificate of Chartered Accountant showing calculation of Net Worth must be enclosed)	Must meet requirement	Not Applicable	Must meet requirement	Must meet requirement	Form FIN 1 with attachments
Turnover					
Average Annual Turnover of last three years should be equal to or more than Rs. 6.18 Cr. in ICT related business	Must meet requirement	Must meet requirement	Must meet 51% (percent) of the requirement	Must meet 20%(per cent) of the requirement	Form FIN 2
<i>NOTE: Audited Balance Sheets of all the three financial years must be submitted in support, without which the bid may not be considered. The calculation sheet for annual average construction turnover shall be certified by a Chartered Accountant.</i>					
Working Capital					
Working Capital based on the current assets and current liabilities (including the short-term loan repayments due in current years) should be minimum of 25% of the estimated cost of bid. (Available Working Capital shall be evaluated as Current Assets + Revolving Line of Credit – Current Liabilities (including loan repayment due within one year)	Must meet requirement	Must meet requirement	Must meet 51% (percent) of the requirement	Must meet 20% (percent) of requirement	
<i>NOTE: Certificate of CA must be submitted indicating clearly that the working capital is as per formula given in tender document and clearly stating the individual components. CA must also clearly mention that he has gone through the Revolving line of credit which is issued by scheduled Bank and Bank's commitment is project specific, assured and without any ambiguity and shall be available till final completion of project, otherwise bid shall not be considered. For revolving line of credit bank's letter should be attached. The bank issuing revolving line of credit has to be scheduled Bank as per format, otherwise it shall not be considered.</i>					

3.2 Bid Capacity (Financial Resources)					
Bid Capacity: The bid capacity of the bidder shall not be less than the estimated cost of the bid. The formula for calculating Bid capacity is given here	Must meet requirement	Must meet requirement	Lead member must meet 51% (percent) of the requirement	Must meet 20% (percent) of requirement	Form FIN 3
<p>Bid Capacity = $(2xAxN)-B$</p> <p>Where A= Maximum value of Annual Turnover from urban infrastructure works executed in any one year during the last four years (2013-14, 2014-15, 2015-16, 2016-17) (updated to present price level) taking in to account the completed as well as works in progress (including current year, if opted by the bidder),</p> <p>N=Prescribed completion period of the work for which bids are invited in years,</p> <p>B= Value at present price level (2016-17) of existing commitments and ongoing works to be completed during N period i.e., the period of completion of works for which bids are invited.</p>					
<p><i>NOTE: The certificate of CA regarding Bid Capacity must be submitted otherwise bid shall not be considered. The certificate should clearly show the calculation how the Bid Capacity is calculated as per formula given in tender. The contractor should submit an undertaking on stamp paper of Rs. 500 that he has mentioned all projects necessary for calculation of B value for the calculation of Bid Capacity</i></p>					

4. Experience:

Criteria	Compliance Requirements				Documents Submission Requirements
	Single Entity	Joint Venture			
Requirement		All Partners Combined	Each Partner	One partner	
4.1 General Experience:					
Experience in supply of goods and services of ICT related contracts (Network Operation Centre, Data Centre, Smart Rack and video walls) - At least the last 5 Years prior to the Bid submission deadline. (2012-13 to 2016-17 and current year)	Must meet requirement	Not Applicable	Must meet requirement	Not Applicable	Form EXP 1
<p><i>NOTE: Certificate of Chartered Accountant must be submitted, clearly indicating construction experience</i></p>					

based on construction turnover of the firm.

4.2 Specific Experience

The bidder should have experience of the following in last five financial years (2012-13 to 2016-17); experience in current year shall also be counted up to deadline for submission of bid.

<p>Should have substantially completed (as per definition given below) / completed and Commissioned any two of the following works:</p> <p>i) Network Operation Centre ii) Data Centre iii) Video walls for Metro/ Police/ or any other Government/ PSU organization</p> <p>Each of the two works shall also include installation of Smart Rack and all other ancillary works like interior finishing ,civil, electrical, fire detection works , furniture-works etc required to make the facility fully functional each amounting equal to Rs. 2.88 Cr (Rupees Two Crore and Eighty-Eight lakh).</p>	Must meet requirement	Must meet requirement	Not Applicable	Not Applicable	Form EXP 2a
OR					
<p>Should have substantially completed (as per definition given below) / completed and Commissioned any three of the following works:</p> <p>i) Network Operation Centre ii) Data Centre iii) Video walls for Metro/ Police/ or any other Government/ PSU organization iv) Command/ City Operation Centre</p> <p>Each of the three works shall also include installation of Smart Rack and all other ancillary works like interior finishing, civil, electrical, fire detection works, furniture-works etc required to make the facility fully functional each amounting equal to Rs. 2.06 Cr. (Rupees Two Crore</p>	Must meet requirement	Must meet requirement	Not Applicable	Not Applicable	Form EXP 2a

and Six lakh).					
<p>Note:</p> <p>(i) <i>Substantially completed means that – the Supplier has completed and commissioned the work, at least of the amount required for qualification, out of a large size contract. The commissioning of the work is essentially required and any hindrance in commissioning whether within or beyond control of the contractor would not be acceptable.</i></p> <p>(ii) <i>Clients certificate of experience must clearly indicate whether</i></p> <ul style="list-style-type: none"> • <i>Completed and commissioned; or</i> • <i>Substantially completed as per definition given above</i> 					
<p>4.3 Experience in Key Activities in last 5 years</p>					
<p>Should have substantially completed (as per definition given below)/ completed and commissioned any two of the following works in last five years:</p> <p>i) Network Operation Centre</p> <p>ii) Data Centre</p> <p>iii) Video walls for Metro/ Police/ or any other Government/ PSU organization</p> <p>Each of the two works shall also include installation of Smart Rack and all other ancillary works like interior finishing, civil, electrical, fire detection works, furniture-works, etc. required to make the facility fully functional.</p>	Must meet requirement	Must meet requirement	Not Applicable	Not Applicable	Form EXP 2b
OR					
<p>Should have substantially completed (as per definition given below)/ completed and commissioned any three of the following works in last five years:</p> <p>i) Network Operation Centre</p> <p>ii) Data Centre</p> <p>iii) Video walls for Metro/ Police/ or any other Government/ PSU organization</p> <p>Iv) Command/ City Operation Centre</p> <p>Each of the three works shall also</p>					

include installation of Smart Rack and all other ancillary works like interior finishing, civil, electrical, fire detection works, furniture-works etc required to make the facility fully functional.					
<p><i>Note: - Substantially completed means that the Supplier has completed and commissioned the work, at least of the amount required for qualification, out of a large size contract. The commissioning of the work is essentially required and any hindrance in commissioning whether within or beyond control of the contractor would not be acceptable.</i></p>					
<p>Note: For 4.2 & 4.3</p> <p>i) The Bidder shall submit copies of Work Orders, Completion and satisfactory performance Certificates in support of their experience claims. Only works of Govt/PSU/Autonomous bodies under Govt. Sector of any country shall be considered.</p> <p>ii) The works which have been completed during the period mentioned above, though may have commenced earlier, and shall be considered for experience purposes.</p> <p>iii) For considering experience of the bidder, out of its experience as JV, its own works in the JV shall be considered with relevant evidence/certificates.</p> <p>iv) JV shall comprise of not more than three firms/companies. The minimum equity under JV of lead firm should be min 51% and other firm min 20% each.</p>					

NOTE:

The present price level for turnover and cost of completed work of similar nature, the previous years' value shall be given weight age of 10% per year as follows:

Sr. No	Financial Year	Weight age
(i)	2016-17	1.00
(ii)	2015-16	1.10
(iii)	2014-15	1.21
(iv)	2013-14	1.33
(v)	2012-13	1.46

5. Technical Certification

The Bidder need to have any of the following Certifications at the time of bidding

- a) ISO 9001 : 2008 : Certification for System Integration.
- b) ISO- 20000 : 2011 : for IT Service Management (Facility Management Services)
- c) ISO 27001 : 2005 : for Information Security Management System

SECTION IV: BIDDING FORMS

Table of contents

S. No	Particulars
4.1	Technical Proposal Submission Sheet
4.2	Price Proposal Submission Sheet
4.3	Price Schedule for Goods
4.4	Bid Security (Bank Guarantee Unconditional)
4.5	Bid Securing Declaration
4.6	Manufacturer's Authorization
4.7	Technical Proposal Check List
4.8	Form : Revolving line of credit
4.9	Declaration by the Bidder under Sections 7 and 11 of the Act
4.10	Power of Attorney
4.11	Joint Venture Agreement
4.12	Statement for work in hand
4.13	Check Points
4.14	Self - Appraisal Sheet
4.15	Additional Certification From Bidder
4.16	Self-Declaration by bidder – No blacklisting
4.17	Certification of Conformity / No Deviation
4.18	Authenticity of Items (to be procured under this subject contract)
4.19	Undertaking for Functional Requirement of Equipment

Bidder shall submit in addition to the bidding forms, all the tables duly filled up in the scope of work. This will facilitate the evaluation of the bid.

4.1 Technical Bid Submission Sheet

Technical Bid Submission Sheet

Date: _____

NIB No.: _____

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____

- (b) We declare that we fulfill the eligibility and qualification criteria in conformity with the Bidding Document and offer to supply in accordance with the specifications, the delivery schedule and other requirements as specified in Section V, Schedule of Supply, the following Goods and Related Services:

- (c) Our Bid shall be valid for a period of _____ days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ per cent of the Contract Price or shall submit the Performance Security Declaration, as the case may be, for the due performance of the Contract;

- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities of India or other the eligible countries;

- (f) We are not participating, as Bidder in more than one Bid for supply of the subject Goods in this bidding process, other than alternative offers, if permitted, in the Bidding Document;

- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract have not been debarred by the State Government or the Procuring Entity or a regulatory authority under any applicable law;

- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed;

- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive;

- (j) We agree to permit Government of Rajasthan or the Procuring Entity or their representatives to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by them;

- (k) We declare that we have complied with and shall continue to comply with the provisions of the Code of Integrity including Conflict of Interest as specified for Bidders in the Rajasthan Transparency in Public Procurement Act, 2012, the Rajasthan Transparency in Public Procurement Rules, 2013 and this Bidding Document during the procurement process and execution of the Contract till completion of all our obligations under the Contract;

- (l) Other comments, if any:

Name: _____

In the capacity of: _____

Signed: _____

Date: _____

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

Duly authorized to sign the Bid for and on behalf of: _____

Complete Address _____

Tel: _____

Fax: _____

E-mail: _____

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

(To be submitted only in Volume 2)

4.2 Financial/ Price Bid Submission Sheet

Financial Bid Submission Sheet

Date: _____

NIB No.: _____

We, the undersigned, declare that:

(a) We have examined and have no reservations to the Bidding Document, including Addenda No.: _____

(b) We offer to supply in conformity with the Bidding Document and in accordance with the specifications, the delivery schedule and other requirements as specified in Section V, Schedule of Supply, the following Goods and Related Services:

(c) The total Price for our Bid, excluding any discounts offered, if permitted, in item (d) below is: _____

(d) The discounts offered, if permitted and the methodology for their application are:

(e) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.

(f) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

(g) Other comments, if any:

Name: _____

In the capacity of: _____ Signed: _____

Date: _____

Duly authorised to sign the Bid for and on behalf of: _____ Complete Address _____

Tel: _____ Fax: _____ E-mail: _____

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.3 Price Schedule For Goods
(To be submitted in Volume 2 only)

Sl. No	Item Description	Units	Qty.	Rate FOR destination including all cost and taxes except GST	GST Amount (If Applicable)	Amount inclusive of all
				(In Rupees)	(In Rupees)	(In Rupees)
1	2	3	4	5	6	(7) = (4+5+6)
2	Video Wall 18 Nos. in 3 sets of 3 X 2 Monitors of 49"/50" video wall LED and Accessories	Lot	1			
3	6 X 3 Video Wall Controller with 8 HDMI Input & 18 Output	Lot	1			
4	2MP indoor IR indoor 1080p Professional IP HD fixed lens Dome high definition Camera and Accessories	Nos	10			
5	Access Door Controller up to 4 WIEGAND reader support Complete with Housing & power Supply Module with Battery Charger & Battery Backup; with Access Control System Software; with 4 Nos of Biometric reader & 2 Nos of Exit Push Buttons and Accessories	Lot	1			
6	Network Rack 800W X 2000(42U) H X 1000D with Accessories	Nos	1			
7	Modular Server Rack, with 2 x 35 kW Cooling, IBMS, 165 U Usable Space, Redundancy, inbuilt integrated Fire Detection and Suppression system and Monitoring System	Nos	1			
8	Modular Server Rack, with 2 x 35 kW Cooling, Redundancy, inbuilt integrated Fire Detection and Suppression system and Monitoring System.	Lot	1			
9	Intelligent Rack PDU (IP based), Liebert, MPH-I, Rack PDU with PDU Level Metering, 0U, 32A, 230V, 18 C13 and 6 C19, IEC30	Lot	1			

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

10	Modular Server rack for 18.5" Local Rack Access LCD Console with 16 Port Digital KVM Switch, USB KB, and 16 MPUIQ-VMCHS Cables - US INTL- LRA185KMM16D-001	Lot	1			
11	Electric Motorised Projection Screen with Sturdy structure made of High Gain Projection Fabric with RF cordless Remote to operate the screen with a touch of a button, in 6' x 8' Sizes with lubricated tubular motor	Nos	1			
12	Ceiling Mount Projector Stand Kit 3' to 6' of Size	Nos	1			
13	Diesel Generator and Accessories 80 KW, 440V, 50Hz, Automatic Transfer Switch	Lot	1			
14	UPS and Accessories 60KW, 3 Phase,	Lot	1			
15	Battery Banks and Accessories 60 Min. Back up,	Lot	1			
16	Fire Detection System and Accessories	Lot	1			
17	Novac Based Fire Suppression System and Accessories	Lot	1			
18	Public Address & EVAC System and Accessories	Lot	1			
19	ABC powder type portable fire extinguishers	Lot	1			
20	Fire Barrier/Passive Fire Protection System and Accessories	Lot	1			
21	Rodent Repellent System and Accessories	Lot	1			
22	Water Leakage Detection System and Accessories	Lot	1			
23	Medium Back Revolving Chair with Head Rest	Lot	32			
24	Executive Revolving Chair with Head Rest	Lot	2			

4.3.1 Bid Security (Bank Guarantee Unconditional) *

Form of Bid Security
[insert Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: *[Chief Executive Officer, JSCL, RAJSATHAN]*

Date: *[insert date]*

BID GUARANTEE No.: *[insert number]*

We have been informed that ***[insert name of the Bidder]*** (hereinafter called "the Bidder") has submitted to you its bid dated ***[insert date]*** (hereinafter called "the Bid") for the execution of ***[insert name of contract]*** under Notice Inviting Tender No. ***[Insert NIT number]*** ("the NIT").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we ***[insert name of Bank]*** hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ----- ***[insert amount in figures]*** ***[insert amount in words]*** upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letter of Technical Bid; or
- (b) having been notified of the acceptance of its Bid by the *Procuring Entity* during the period of bid validity,
 - (i) fails or refuses to execute the Contract Agreement,
 - (ii) fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders (hereinafter "the ITB"),
- (c) has not accepted the correction of mathematical errors in accordance with the ITB, or
- (d) has breached a provision of the Code of Integrity specified in the ITB;

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

Signed: _____

[insert signature of person whose name and capacity are shown]

NOTE: * - Scheduled Bank Only

Name: _____

[insert complete name of person signing the Bid Security]

In the capacity of: _____

[insert legal capacity of person signing the Bid Security]

Duly authorized to sign the Bid Security for and on behalf of _____

[insert name of the Bank]

Dated on _____ day of _____,

[insert date of signing]

Bank's Seal _____

[affix seal of the Bank]

[Note: In case of a Joint Venture, the Bid-Security must be in the name of all partners to the Joint Venture/Lead bidder that submits the bid.]

4.3.2 Bid Securing Declaration

Form of Bid Securing Declaration

Date: ***[insert date (as day, month and year)]***

Bid No.: ***[insert number of bidding process]***

Alternative No, if permitted: ***[insert identification No if this is a Bid for an alternative]***

To: ***[Chief Executive Officer, JSCL, RAJASTHAN]***

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with you, the Procuring Entity for the period of time of ***[insert number of months or years, as required by the Procuring Entity]*** starting on ***[insert date]***, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) withdraw our Bid during the period of bid validity specified in the Letter of Bid; or
- (b) do not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of our Bid by you, the Procuring Entity, during the period of bid validity, (i) fail or refuse to sign the Contract, if required, or (ii) fail or refuse to furnish the Performance Security Declaration, in accordance with the ITB; or
- (d) breach any provisions of the Code of Integrity as specified in the ITB;

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) thirty days after the expiration of our Bid.

Signed: _____

[insert signature of person whose name and capacity are shown]

Name: _____

[insert complete name of person signing the Bid-Securing Declaration]

In the capacity of: _____

[insert legal capacity of person signing the Bid-Securing Declaration]

Duly authorized to sign the bid for and on behalf of: _____

[insert complete name of Bidder]

Dated on _____ day of,

[insert date of signing]

Corporate Seal _____

[affix corporate seal of the bidder]

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all partners to the Joint Venture/ Lead bidder that submits the bid.]

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.4 Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section III (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

4.4.1 Form ELI - 1: Bidder's Information Sheet

BIDDER'S INFORMATION	
Bidder's legal name	
In case of JV/Consortium, legal name of each partner	
Bidder's /all JV/Consortium partners country of constitution.	
Bidder's /all JV/Consortium partners year of constitution	
Bidder's /all JV/Consortium partners legal address in country of constitution	
Bidder's /all JV/Consortium partners authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are self-attested copies of the following original documents: <ol style="list-style-type: none">1. In case of single entity, certificate of registration/ incorporation and memorandum of association or constitution of the legal entity named above.2. Authorization to represent the firm or JV named in above.3. In case of JV, letter of intent to form JV or JV agreement.4. In case of Consortium, letter of intent to form consortium or JV consortium.	

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.4.2 Form ELI – 2: JV Information Sheet

Attach the Letter of Intent to form JV or certificate of registration/ incorporation and memorandum of association or constitution of the legal entity, if JV is already in existence.

(Each member of a JV / must fill in this form)

JV /consortium/ SPECIALIST CONTRACTOR'S INFORMATION	
Bidder's legal name	
JV /consortium Partner's or Subcontractor's legal name	
JV /consortium Partner's financial share in the JV	
JV /consortium Partner's or Subcontractor's country of constitution	
JV /consortium Partner's or Subcontractor's year of constitution	
JV /consortium Partner's or Subcontractor's legal address in country of constitution	
JV /consortium Partner's or Subcontractor's authorized representative information(name, address, telephone numbers, fax numbers, e-mail address)	
Attached are attested copies of the following original documents: <ol style="list-style-type: none">1. Certificate of registration/ incorporation and memorandum of association or constitution of the legal entity named above.2. Authorization to represent the firm named above.	

4.4.3 Form LIT 1- Pending Litigation

(Each Bidder or member of a JV / must fill in this form to be certified by the Statutory Auditors of the Bidder)

Pending Litigation			
<ul style="list-style-type: none">○ No pending litigation in accordance with Section III (Evaluation and Qualification Criteria).○ Pending litigation in accordance with Section III (Evaluation and Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in INR	Value of Pending Claim as a Percentage of Net Worth

4.4.4 Form FIN 1 – Financial Situation

Each Bidder or member of a JV must fill in this form

(To be certified by the statutory auditors of the Bidder)

Financial Data for past years in Rupees				
Years /Items	Year 1:	Year 2 :	Year 3:	Year 4:

Information from Balance Sheet in Rupees

(in case of bidders and JV partners from outside India, data to be converted at the exchange rate prevailing 28 days prior to the deadline of submission of the bids)

Total Assets				
Total Liabilities				
Net Worth				
Current Assets				
Current Liabilities				
Others as required				

Information from Profit & Loss Account/ Income & Expenditure Statement

Total Operating Revenues/ Income				
Profit/ Excess of Income over Expenditure before Taxes				
Profit/ Excess of Income over Expenditure after Taxes				
Others as required				

Attached are attested copies of audited financial statements (balance sheets including all related notes, and Profit & Loss Account/ Income & Expenditure Statement) for the last years, as indicated above, complying with the following conditions:

- All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
- Historic financial statements must be audited by a chartered accountant.
- Historic financial statements must be complete, including all notes to the financial statements.
- Historic financial statements must correspond to accounting periods already completed and audited. (No statements for partial periods shall be requested or accepted).

Signature of the statutory auditors

Signature of Authorised Signatory

4.4.5 Form FIN 2 Average Annual Construction Turnover in Rupees

Each Bidder or member of a JV must fill in this form

(To be certified by the statutory auditors of the Bidder)

Annual Turnover Data for the last.....years (<i>Related works only</i>)	
Year	Amount-Rupees
Average Annual Construction Turnover	
The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed, at the end of the period reported. For JV partners from other countries, the conversion to Rupees shall at the rates prevailing on the 31st. March of that year.	
Signature of the statutory auditors	Signature of Authorised Signatory

NOTE:

[To bring the earlier year's amount to the last financial year's level the following multiplier may be applied.]

The present price level for turnover and cost of completed work of similar nature, the previous years' value shall be given weight age of 10% per year as follows:

Sr. No	Financial Year	Weight age
(i)	2016-17	1.00
(ii)	2015-16	1.10
(iii)	2014-15	1.21
(iv)	2013-14	1.33
(v)	2012-13	1.46

4.4.6 Form FIN 3 Financial Resources - Rupees

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract as indicated in Section III (Evaluation and Qualification Criteria).

FINANCIAL RESOURCES		
S.No	Source of Financing	Amount in Rupees

Signature of Authorised Signatory

4.4.7 Form FIN 4 Current Contract Commitments / Works in Progress

Bidders and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

CURRENT CONTRACT COMMITMENTS					
S.No.	Name of Contract	Procuring Entity's Contact Address, Tel., Mobile, Fax, e-mail id	Value of Outstanding work in Rupees	Estimated Completion Date	Average Monthly Invoicing during Last 6 months (Rupees per month)

Signature of Authorised Signatory

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.5 Form EXP – 1: General Experience

Each Bidder or member of a JV must fill in this form

GENERAL EXPERIENCE				
Starting Month Year	Ending Month Year	Years	Contract Identification and Name Name and Address of Procuring Entity Brief Description of the Works Executed by the Bidder	Role of Bidder

Bidder Must Enclose:

1. Certificate of CA mentioning the construction turnover as per relevant clause.

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.6 Form EXP – 2(a): Specific Experience**Note:** Please fill up one sheet per contract

CONTRACT OF SIMILAR SIZE AND NATURE		
Contract No.of.	Contract Identification	
Award Date		Completion Date
Role in Contract	Contractor / Management Contractor / Subcontractor	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Procuring Entity's Name, Address, Telephone Number, Fax Number, E-mail address		

Bidder Must Enclose:

1. Work order.
2. Experience certificate as per relevant clause from an officer not below the rank of executive Engineer or Equivalent.

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.7 Form EXP – 2(b): Experience in Key Activities

Fill up one (1) form per contract

CONTRACT WITH SIMILAR KEY ACTIVITIES			
Contract No.of.	Contract Identification		
Award Date		Completion Date	
Total Contract Amount	-----Equivalent INR -----		
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount	
Employer's Name Address Telephone Number Fax Number E-mail			
Description of the key activities in accordance with Criteria.			
Should have substantially completed (as per definition given below)/ completed and commissioned any two of the following works in last five years: i) Network Operation Centre ii) Data Centre iii) Video walls for Metro/ Police/ or any other Government/ PSU organization Iv) Command/ City Operation Centre Inclusive of Smart Rack, civil cum electrical cum renovation works for commercial or office set – up including all ancillary works.			
Reference page No., copy of work order and completion & commissioning certificate in support of above experience:			

4.8 Form: Assured Revolving Line of Credit Facility

(To be submitted by a Scheduled Bank on the Bank's Letter head)

Date: *(Insert Date)*

To: Chief Executive Officer

JMC Building, Pt Deendayal Upadhyay Bhawan
LalKothi, Tonk Road, Jaipur-302016

Subject: Letter of Assurance for Revolving line of credit facility for INR ----

Dear Sir,

WHEREAS _____ [*name and address of Bidder*] (**hereinafter called the "Bidder"**) intends to submit a bid for----- ---(*name of contract package*) -----" under the Jaipur Smart City Limited (JSCL) (**hereinafter called the "Employer"**) in response to the Invitation for Bids issued by the JSCL through NIB no. -----; and

WHEREAS the Bidder has requested that an assured revolving line of credit be provided to it for executing the ----- ---(*name of contract package*) -----In the event that the Contract is awarded to it; then

KNOW ALL THESE PEOPLE by these presents that We _____ [*name of Bank*] of _____ [*name of Country*] having our registered office at _____ [*address of registered office*] are willing to provide to _____ (the Bidder) a sum of up to _____ [*amount of guarantee in figures and words*] as an assured revolving line of credit for executing the Works under ----- ---(*name of contract package*) -----should the Bidder be awarded the contract based on its tendered prices.

We understand that this assurance may be taken into consideration by the Employer during evaluation of the Bidder's financial capabilities, and further assure that we intend to maintain this revolving line of credit until such time as the Works are completed and taken over by the Employer.

SEALED with the Common Seal of the said Bank on the ____ day of _____, 2017

Date: _____ Signature of the Bank: _____

Witness: _____ Seal: _____

[Signature, name and address]

4.9 Declaration by the Bidder in compliance of Section 7 & 11 of the Act

Declaration by the Bidder/ JV

(To be prepared and submitted in 100 rupees Non Judicial Stamp Paper)

In relation to our Bid submitted to [enter designation and address of the procuring entity] for procurement of [insert name of the Works] in response to their Notice Inviting Bids No..... Dated we hereby declare under Section 7 and 11 of the Rajasthan Transparency in Public Procurement Act, 2012, that;

1. We possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. We have fulfilled our obligation to pay such of the taxes payable to the Central Government or the State Government or any local authority, as specified in the Bidding Document;
3. We are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and are not the subject of legal proceedings for any of the foregoing reasons;
4. We do not have, and our directors and officers not have, been convicted of any criminal offence related to our professional conduct or the making of false statements or misrepresentations as to our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. We do not have a conflict of interest as specified in the Rajasthan Transparency in Public Procurement Act, the Rajasthan Transparency in Public Procurement Rules and this Bidding Document, which materially affects fair competition;
6. We have complied and shall continue to comply with the Code of Integrity as specified in the Rajasthan Transparency in Public Procurement Act, the Rajasthan Transparency in Public Procurement Rules and this Bidding Document, till completion of all our obligations under the Contract.

Date:

Signature of Bidder

Place:

Name:

Designation:

Address:

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

4.10 POWER OF ATTORNEY (TO BE PREPARED AND SUBMITTED IN RS. 100.00 NON JUDICIAL STAMP PAPER)

Power of Attorney for Authorized Representative

The firm M/s.....authorize the following Representative to sign and submit the tender document, negotiate terms and conditions for the contract, to sign the contract, to deal with the _____, to issue and receive correspondence related to all matters of the bid "-----". We / M/s _____ undertake the responsibility due to any act of the representative appointed hear by.

For Partnership Firm's

S. No.	Name of the All Partner	Signature of Partner with Seal
1.		
2.		
3.		
4.	Name and Designation of the person Authorized	
5.	Attested Signature of the Authorized Representative	

For Limited Firm's

Name and Designation of the person Authorized	
Firm	
Address	
Telephone No.	
Fax No.	
Telex No.	
Authority By which the Powers is delegated	
Attested Signature of the Authorized Representative	
Name and Designation of person attesting the signatures	

4.11 Joint Venture Agreement (Among Three Firms)

(On Rs 1000/- Non-judicial Stamp Paper)

Memorandum of Understanding for

JOINT VENTURE

This Memorandum of Understanding (hereinafter referred to as "MOU") is made and entered into this ----- ("Effective Date").

BETWEEN

M/s. _____, a company incorporated, and having its registered office at _____.
(Hereinafter referred to as the "**First Party**"/ "**One Partner**");

M/s. _____) a company incorporated, and having Registered office at _____.
(Hereinafter referred to as the "**Second Party**"/ "**Each Partner**");

Hereinafter jointly referred to as the "**Parties**" and individually as "**Each Party**" or "**a Party**" as the case may be.

WHEREAS,

A) **The Government of Rajasthan, JAIPUR SMART CITY LIMITED. Jaipur Rajasthan (hereinafter referred to as the JSCL or procuring entity) invited bid for**

(B) The **Parties** hereto formed a Joint Venture or will form a joint venture (hereinafter referred to as the "**JV**") to jointly execute the above project in all respect

NOW THEREFORE IT IS HERE BY AGREED as follows

ARTICLE 1: JOINT VENTURE:

1.1. The Parties hereto agree to form the Joint Venture with _____ designated as the **One Partner and First Partner.**

1.2. _____ shall be the **Second Member – or Second Partner**

1.3. _____ shall be the **Third Member – or Third Partner (insert more lines if more partners)**

ARTICLE 2: JOINT VENTURE NAME:

2. The JV shall do business in the name of "**_____ Joint Venture**".

ARTICLE 3: JOINT AND SEVERAL LIABILITY:

3. The **Parties** hereto shall, for the above-referred **Projects**, be jointly and severally liable to the **Employer** for the execution of the Projects in accordance with the **Contract** till the actual completion of Contract including defect liability period and operation & maintenance as per bid conditions.

ARTICLE 4: PROPORTIONATE SHARE:

4.1 Each member of the Joint Venture agrees to place at the disposal of the Joint Venture, the benefit of all its experience, technical knowledge and skill, and shall in all respects bear its share of responsibility and burden of completing the contract. The parties herein shall be responsible for physical and financial distribution of work as under.

Lead Partner: Financial responsibility: -----

Physical responsibility: -----

Other Partners: Financial responsibility: -----

Physical responsibility: -----

Other Partners: Financial responsibility: -----

Physical responsibility: -----

4.2 All rights, interests, liabilities, obligations, risks, costs, expenses and pecuniary obligations and all net profits or net losses arising out of the **Contract** shall be shared or borne by the **Parties** in the above **Proportions**.

4.3 The members in the proportion as mention in article 4.1, shall contribute sufficient Initial fixed capital for timely execution of the project including commissioning & operating period as per the contract.

ARTICLE 5: JOINT EFFORT AND MANAGEMENT:

5.1 The **Parties** shall participate as a **JV** in the submission of bids and further negotiations with the **Employer** and shall co-operate and contribute their respective expertise and resources to secure and execute the **Projects**.

5.2 On award of **Projects**, the **First Partner** in consultation with the other members of JV will decide on the final management structure for the successful execution of the **Projects** as per the terms of **Contract**.

5.3 All the **Parties** hereby agree to pool in their financial, administrative, managerial, technical and material resources for execution of the **Projects**, including commissioning & operation for the period as stipulated in the contract. The share of interest of the **JV** shall be as per the mutual understanding for the successful completion of the project.

ARTICLE 6: EXCLUSIVITY:

6.1 The co-operation between the **Parties** hereto shall be mutually exclusive i.e. none of them shall without the other **Party's** consent & prior approval of **JSCL**, approach or cooperate with any other parties in respect of the Project.

6.2 In the course of working as associates, the parties to the JV will be sharing information with each other which may be proprietary /confidential information /knowledge acquired by each other. It is hereby agreed that the parties will maintain complete secrecy regarding such information / knowledge and will not divulge to any party for any other purpose except for the success of the joint execution of the contract. All parties will also indemnify each other against any claim that may arise out of using information, which are being claimed proprietary.

ARTICLE 7: Memorandum of Understanding:

7.1 This **Memorandum of Understanding** shall be terminated:-

- a. if the **Parties** mutually confirm that the **JV's** bid proposal has not been finally accepted by **Employer** and all rights and obligations of the **Parties** under or in connection with this **Memorandum of Understanding** have ceased, or
- b. after successful completion of the project including commissioning & operation and defect liability period from the date of this **Memorandum of Understanding** unless extended for a further period on demand of **JSCL** & mutual consent of the Parties, or

7.2 The **Memorandum of Understanding** can be modified by mutual consent of the Parties to suit the efficient and expeditious execution of Projects including commissioning & operation of Plant or to make this agreement more meaningful to suit the requirements of Employer **after the consent of the Employer**.

ARTICLE 8: ARBITRATION:

8.1 Any dispute resulting from this Agreement shall be settled amicably by mutual Consultation by the Managing Directors/Chairman of _____ & _____. In the event that an amicable settlement is not reached within 60 days in any particular case, the dispute shall be referred to arbitration and shall be resolved in accordance with and subject to the provisions of the _____ and any statutory modifications and enactment hereof for the time being in force. The decision of the arbitrators shall be final and binding upon both parties. The venue of arbitration will be _____.

ARTICLE 9: GOVERNING LAWS:

9.1 This Agreement shall in all respects be governed by and interpreted in accordance with the _____ Laws.

ARTICLE 10: CONFIDENTIALITY:

10.1 No Party hereto shall disclose to any other party any information of a confidential nature including but not limited to trade secrets, know-how acquired from any Party in connection with the subject matter of this Agreement.

ARTICLE 11: ADDRESS OF CONSORTIUM:

Any and all correspondence from the Employer to the **JV** shall be addressed to **(name of JV)** at the address stated herein below—(any one of the partners). The address of the Consortium office of the partner companies will be deemed to be the address for the purpose of communication.

The notice, if any required to be served on the party by the other party, will be deemed to be served, if the said notice / communication is delivered by Registered Post at the respective address **(name of JV)**

ARTICLE 12: Authorized Representative:

The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the parties of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.

Authorized Representative of JV: _____

ARTICLE 13: ASSIGN ABILITY:

13.1 The interests and rights of a Party in the Contract and as a Party of the Joint Venture shall not be transferable or assignable without the written consent of the Employer & other party.

ARTICLE 14: INTERPRETATION OF HEADINGS:

14. The headings of each of the Articles herein contained are inserted merely for convenience of reference and shall be ignored in the interpretation and construction of any of the provisions herein contained.

ARTICLE 15: OTHERS

Volume-I Section-IV: Bidding Forms

RFP for Integrated City Operation Centre in existing JSCL building

15.1 Any other matters not contained in this Agreement shall be discussed and amicably agreed upon by the Parties in the spirit of mutual trust and cooperation for timely completion of project including commissioning & operation of project. Notwithstanding anything above all the Parties are severally and jointly responsible to the Employer for execution of the Contract:

IN WITNESS WHEREOF the Parties hereto have caused this Agreement to be executed by each of the duly authorized representatives as appearing below:-

Signed by _____)
For and on behalf of _____)

in the presence of: _____)

Name: _____)
Designation: _____)
Signed by _____)
For and on behalf of _____)

in the presence of: _____)
_____)

Name: _____)
Designation: _____)

Name:
Designation:

Name :
Designation:

4.12 STATEMENT FOR WORK IN HAND (for calculation of value of Bid Capacity)

This is to certify that the status of the present works in hand as on **date of publication of NIT** of order value more than Rs. 10.00 lacs for which either order are received or the work is under execution but which are still not completed is as under:

Amount in Lacs of Rupees.

Sl. No	Brief Description of Work	Stipulated Date of Start	Stipulated Date of Completion	Time left for execution after date of publication of NIT , in months	Cost of awarded work	Cost of work executed up to date of publication of NIT	Balance Cost of un-executed work as on date of publication of NIT in 30 month from and date of submission
1	2	3	4	5	6	7	8=6-7

1. If the value of Balance work goes beyond 30 months from the date of bid submission then client certificate mentioning the amount of work to be executed beyond 30 months, otherwise full balance work shall be accounted for calculation of 'B' value.

2. This is certified that this is true in all respect and can be used for calculation of the bidding capacity as per the formula given in ITB. This is also certified that other orders under execution by the firm shall not materially affect the bidding capacity of the firm as required in this tender. **(Format should be on Rs 500/= stamp paper)**

Signatures with Seal of Authorized Signatory for tender

4.13 Additional Certification from Bidder

Correction of arithmetical errors

Provided that a financial Bid is substantially responsive, the procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

I. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected

II. 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

III. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder does not accept the correction of errors, its Bid shall be disqualified and its Bid security shall be forfeited or its Bid securing Declaration shall be executed.

Procuring Entity's Right to vary Quantities

I. At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices. Other terms and conditions of the Bid and the conditions of contract.

II. If the procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.

III. In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25 % of the value of Goods of the original contract and shall be. Within one month from the date of expiry of last supply. If the supplier fails to do so, the procuring Entity shall be free to arrange for the balance supply by limited Bidding other wise and the extra cost incurred shall be recovered from the supplier.

Ownership of Assets

The assets that will be created due to the intervention as visualized in the subject contract, will be the property of Jaipur Smart City Limited only, and the selected bidder who helps create these assets will hand over the assets after the Operation and Maintenance phase of Five (5) Years, without any proprietary claim whatsoever.

Signature of Bidder

4.14 Self-Declaration by Bidder: No Blacklisting

In relation to our Bid submitted to [*enter designation and address of the procuring entity*] for procurement of [*insert name of the Works*] in response to their Notice Inviting Bids No..... Dated we hereby declare that;

We do hereby affirm that we have not been blacklisted, by any Government agency or Public Sector Undertakings, either in the bidding stage or during the execution stage of any contract, in which we participated

Date:

Signature of Bidder

Place:

Name:

Designation: Address:

4.15 Certification of Conformity / No Deviation

In relation to our Bid submitted to *[enter designation and address of the procuring entity]* for procurement of *[insert name of the Works]* in response to their Notice Inviting Bids No..... Dated we hereby declare that;

We do hereby affirm that we have complied and shall continue to comply with the all the terms and conditions as specified in this Bidding Document, including technical specification, schedule of supply, quantity of Goods to be procured, payment conditions, till completion of all our obligations under the Contract.

Date:

Signature of Bidder

Place:

Name:

Designation: Address:

4.16 Authenticity of Items (to be procured under this subject contract)

In relation to our Bid submitted to *[enter designation and address of the procuring entity]* for procurement of *[insert name of the Works]* in response to their Notice Inviting Bids No..... Dated we hereby declare that;

We do hereby confirm that, will supply all the items of Goods given in the “List of Goods” in section V of this bid document, all of which will be “Authentic” and will comply with the requirement of this Bidding Document.

Date:

Signature of Bidder

Place:

Name:

Designation: Address:

4.17 Undertaking for Functional Requirement of Equipment

In relation to our Bid submitted to [*enter designation and address of the procuring entity*] for procurement of [*insert name of the Works*] in response to their Notice Inviting Bids No..... Dated we hereby declare that;

We do hereby give an undertaking that, all the Equipment to be supplied by us, as per the “List of Goods” in section V of this bid document, will completely comply with the functional requirement as required by the terms and conditions of the bid document of the subject contract.

Date:

Signature of Bidder

Place:

Name:

Designation:

Address:

SECTION-V: PROCURING ENTITY'S REQUIREMENTS

Integrated City Operation Centre in JSCL building, Jaipur

5.1 Introduction

The proposed Integrated City Operations Centre at existing JSCL office shall have the facilities of Video conferencing and also a Command and Control Centre.

Briefly, Videoconferencing (or video conference) means to conduct a conference between two or more participants at different sites by using computer networks to transmit audio and video data. For example, a point-to-point (two-person) video conferencing system works much like a video telephone.

It is a live, visual connection between two or more people residing in separate locations for the purpose of communication. At its simplest, video conferencing provides transmission of static images and text between two locations.

Video conferencing is generally used for a variety of purposes, including:

- Personal communication. Informal communication would normally use desk top systems.
- Collaborative work between researchers using shared applications.
- Presentations.
- Education. Teaching usually involves one to many connections.

Control and Command Centre will be a place where information from various department command centers and applications will be collected and analyzed for better planning of the city. The insights and information generated through this, will be helpful in managing incidents across the city and do a better planning for the development. It will manage the utilities for ABD area, and in future capable of managing utilities of the entire city.

The key objective of building-in the CCC for the Smart City, is to establish a collaborative framework where input from different functional departments such as transport, water, fire, police, e-governance, etc. can be collected and analysed on a single platform, resulting in aggregated city-level information. Further, this information can be converted into actionable intelligence, which would be propagated to relevant stakeholders and citizens.

5.2 Need for the Project

The works for the establishment of a Video Conferencing room and a Command and Control Centre shall be carried out on the ground floor of the JSCL building, Jaipur. The works shall also include modification developments in the existing office area.

The VC Room shall be used for communicating with multiple people, analyse and to execute and monitor the decisions taken. On the other hand, the Command and Control Centre shall be used for monitoring the diverse sections of the Jaipur city, for example, live traffic conditions, water resource and its availability, ICT components across the city, etc.

The space requirements for the command and control centre, video conference room, server room etc. have been deliberated by discussions between JSCL and PMC and it has been decided to have the ICOC in existing JSCL office. There are modifications/realignment

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

required to the existing office lay out and set up by execution of architectural finishes, electrical, air conditioning, fire alarm systems and other discipline works for constructing the ICOC.

The Infrastructure works for the construction of a Video Conferencing room, a Command and Control Centre shall be carried out and the ICOC shall be integrated with the project: Package-2: ICT Works at a later stage.

The Control and command centre room shall be used for monitoring the various components of Jaipur smart city, namely, traffic, water, ICT components across the city, emergency situations, etc. The VC Room shall be used for communicating with multiple people, analyse and to execute and monitor the decisions taken.

5.3 Area Details

The proposed location for the development of VC room, CCC room and office area is on the existing ground floor of the JSCL building, Jaipur. Its details are given as under: -

S.No	Area dedicated to	Area (in Sqm.)	Remarks
1	Ground Floor carpet area	440	(Total Area)
2	Proposed Control and Command Centre room	95	Included in the Total Area
3	Proposed Video Conferencing room	43	Included in the Total Area

5.4 Existing Situation

A total area of the ground floor of JSCL building is 440 Sqm. and is divided into cabins, workstations, rooms, toilets, pantry area, lobby etc. Interior components like modular furnitures, partitions, cupboards, display soft boards, door & window blinds, etc. are also placed. This space is currently being used as the Jaipur Smart City Office.

Refer **Dwg No. ICT/CC&VC/EP/01**; Titled: **Existing Plan of Smart City Office**.

5.5 Scope of Work & Specifications:

The scope of works under the current RFP has the following components:

Refer **Dwg No. ICT/CC&VC/PP/03**; Titled: **Control & Command Centre, Video Conference Room and Smart City Office**.

A. Civil and Architectural/finishing works:

i. Dismantling works: Dismantling of

- Site clearance, i.e., removing ACs, Fans, Soft board displays, etc.
- Old plaster
- Brick work
- Aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling.
- Doors, windows, shutter including chowkhats, architrave, holdfasts etc. for toilets ventilators.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

- Toilet ventilators and door.
- Scrapping the distemper/ paint to prepare the front wall.
- Removing of carpet tiles in VC room.

and carriageway of unusable materials to the authorised dumping ground of JMC and stocking the usable materials for reuse or sale.

Refer **Dwg No. ICT/CC&VC/DP/02; Titled: Proposed Demolition Plan.**

ii. New works:

- Brick work, plaster, paint.
 - Wooden skirting.
 - Steel gate on external wall.
 - Multipurpose Cement board to close windows,
 - Plaster of paris putty over plastered surface.
 - Distemping (two or more coats).
 - Flooring with Anti-static rubber mat, carpet tiles, wooden flooring.
- Refer **Dwg No. ICT/CC&VC/FP/05; Titled: Proposed Flooring Plan.**

- New carpet tiles
 - Glass writing board.
 - Aluminium work for partitions, doors and windows.
 - Pre-laminated particle board for low & full height partitions.
 - Fire-retardant Stretched fabric acoustic panelling for walls of VC room.
- Refer **Dwg No. ICT/CC&VC/PE/06; Titled: Proposed Elevations of Video Conference Room & Dwg No. ICT/CC&VC/PD/07; Titled: Proposed Detail A & B of Video Conference Room.**

- Gypsum false ceiling and its perimeter, including, making openings for light fittings, grills, diffusers, etc.

Refer **Dwg No. ICT/CC&VC/RCP/04; Titled: Proposed Reflected Ceiling Plan.**

- Soft Fibre Acoustical mineral fibre Suspended Ceiling System for VC and CCC room. The system together should carry a 15-year manufacturer's warranty.
- Wooden Laminated floor panels with underlay foam and Gypsum fire retardant partition for control room and common area.
- Glass Partition Wall with two Leaf glass doors for main entrance of the office.
- Steel Fire Door with Vision Panel doors for CCC, UPS & server room.
- Furniture for the office area, which shall include:
 - Modular work station.
 - Refixing, Remodelling & repositioning of the existing 20 Nos of Modular work station.
 - 2-Drawer Cabinet attached as 1 Nos. between 2 work stations.
- Panic/ Push Bar for Fire Door.

iii. Repair works:

- Modification and fixing of existing tables & workstations.
- Modifying and fixing existing aluminium glazed door to Acoustic door.
- Skirting and flooring with 1st quality vitrified tiles for UPS room.

B. Electrical Works:

General

The brief scope includes design, supply, Installation and Commissioning of Distribution Board, Lighting Fixtures, Conduits, Cables, Switches & socket, UPS, Speakers, dismantling of some existing fixtures / items and their reinstallation. The Contractor shall ensure that the work is carried out as per the tender Drawings, Technical Specifications and BOQ. The works shall be carried out as per Standard Specifications (Electrical Works) published by RUIDP (Rajasthan Urban Infrastructure Development Project). In case specifications are not available, specification prepared by any other Government Department (including CPWD) will be followed. In case of further requirement, specifications available in the latest edition of published codes of Bureau of Indian Standards will be followed.

Refer **Dwg No. ICT/CC&VC/EP/09; Titled: Proposed Plan for Electrical Layout.**

Lighting Fixtures:

Lighting fixtures as per BOQ and tender drawings.

Refer **Dwg No. ICT/CC&VC/EP/10; Titled: Proposed Plan for Electrical Fixtures.**

Electric Connection:

laying of cables/conduit, installing Main Panel Board, DB, Switch boards and making connection etc. as per BOQ and tender drawings.

Dismantling Job:

dismantling of existing fixtures / items and can re use the same where required.

The Contractor shall handover the remaining dismantled fixtures / items which could not be utilized at site to JSCL.

UPS installation:

Supply Installation Testing & Commissioning of UPS including 60 minutes battery back up, rubber matting of floor etc as per the BOQ and tender drawings and making connection as per the Engineer's instruction. This part of IEC 62040 applies to uninterruptible power systems (UPS) with an electrical energy storage device in the DC link.

AC installation:

The contractor shall be responsible for installation of cassette AC and making connection etc as per BOQ and tender drawings.

Refer **Dwg No. ICT/CC&VC/EP/11; Titled: Proposed Plan for Air Conditioning.**

Interface:

The Contractor shall supply all conduit & template for installation and fixing of post accessories etc during civil construction work and shall depute his Engineer / Supervisor to ensure that these are laid / fixed by the civil Contractor as per requirement /drawings to avoid any discrepancy found during installation of fixtures at site and also submit the wiring layout drawing after execution. Any modification during installation if required shall be rectified by the Contractor at no extra cost.

Drawings:

The Contractor has to prepare as build drawings and submit the same.

C. IT Works:

Objective

As a part of Smart city initiative JSCL is to provide Integrated City Operations Center (ICOC) with combination of Command and Control, Data Visualization and Sensor Integration technologies into a Common Operating Picture that improves whole communities" response to and management of planned and unplanned events, and builds the capability and resiliency of agencies charged with citizen services, safety, infrastructure protection, and relief activities.

Refer **Dwg No. ICT/CC&VC/IP/08; Titled: Proposed Instrumentation Plan.**

A Central Command and Control Center has to be established to

1. Display the various dashboards, video, status and control information on a suitable Video Wall
2. Establish a operations workspace wherefrom operations staff can undertake various monitoring and controlling activities, take status and send necessary commands to the different smart elements.
3. Provide necessary IT and Non-IT infrastructure and environmental requirements for the Command and control center.
4. Provide raised flooring, civil work and furniture requirements with, equipment power and network connectivity.
5. Establish a Network Operation center and Security operations center to provide network and security management functions

Project Scope:

Centralized Command and Control Centerfor centralized monitoring and decision making as per the scope defined below:

Components:

a. Construction of Command and control area

1. Monitoring Area

- 1.1 Video Wall
- 1.2 Video Wall Controller
- 1.3 Video Wall Management Software

2. Construction of Server Room

- 2.1 Supply and installation of Server Racks with all required accessories (power, cooling etc.)
- 2.2 Network Rack

3. Access control System for Doors.

Main objective of the Access Control is to protect physical, IP and human assets. This requires restricting unauthorised people from reaching pre-defined areas, with

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

adequate flexibility and scalability needs to be addressed with door access control system. To meet this requirement, an adaptive, modular, scalable and function-rich Access Control solution needs to be proposed.

- 3.1 Access control Device on every entry and exit point for authorise person entry only, controller should deactivate all the door lock in the event of Fire or any emergency.
- 3.2 Access controller Management Software to monitor and manage each and every entry exit.

4. IP Surveillance System for Server, UPS Room and Monitoring Room.

- 4.1 Supply and fixing of IP Dome Camera and video stream should be given to central VMS software (this is part of separate tender, Bidder request to check the compatibility).

b. Video Conference Room for Administrative Meeting

1. Supply and fixing of Motorised Projector Screen
2. Supply and fixing of Ceiling Mounting Kit for existing Projector – Epson EBX31
3. Supply and Fixing of 2 set 10 Meter Power Cable, 10 Meter VGA, 10Meter HDMI

Operation and Maintenance Phase:

The scope of work for the Operations phase can be categorized under three service categories as depicted in below. Basic Infrastructure Services are mandatory services to be provided by the BIDDER to ensure seamless ICOC operations.

a. Readiness for the Services

- BIDDER and JSCL should agree upon the contractual period & service levels for providing the necessary services.
- All Hardware & other software, Licenses and other infrastructure over and above the BoM provided in this RFP would be provided by BIDDER for 5 years.

b. Infrastructure Services

Following services shall be provided by the BIDDER under the basic infrastructure services:

- Ensure availability of the ICOC infrastructure (both physical and IT) including but not limited to Power, Cooling, CCTV, Access Control, Racks, and other peripheral equipment installed at the time of related DC equipment and Video Wall commissioning.
 - Provide rack-space mapping for IT equipment.
 - Ensure power & cooling requirements up to the collocated servers and associated infrastructure.
 - Ensure availability of the other peripheral infrastructure such as CCTV in the specified area. Check availability of physical space for racks and supporting infrastructure.
- Provide physical space for seating operating and managerial staff at the ICOC. This arrangement needs to be worked out in discussion with the JSCL and the BIDDER. This will also depend upon the space available (Layout Diagram attached with RFP) at the ICOC.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

- Provide Bio-metric access activation service for access to the server farm area in consultation with the respective user departments.
- Provide locked server cabinets for storage, with CCTV surveillance and hand key biometric access to all areas.
- Proactive and reactive maintenance, repair and replacement of defective components (physical and other peripheral IT infrastructure) installed at the Data center through this RFP. The cost for repair and replacement shall be borne by the BIDDER.
- Any component (Physical & IT installed at the time of ICOC commissioning) that is reported to be faulty / non-functional on a given date should be either fully repaired or replaced by temporary substitute (of equivalent configuration) within the time frame agreed upon in the Service Level Agreement (SLA).
- Proactive monitoring of the entire basic infrastructure installed at the ICOC through building management - system
- BIDDER shall maintain records of the maintenance of the basic infrastructure and shall maintain a logbook on-site that may be inspected by the JSCL at any time.

c. Integration Testing

Integration testing is essential to ensure that additional Smart City application to be deployed does not disrupt the ICOC operations and affect other ICOC infrastructure in terms of performance and security. The technical tasks to be carried out shall be as follows:

- **Functional Testing:** Ensuring that the functionality as described by the department works adequately on the ICOC environment. The definition and review of the parameters for functional testing shall be the responsibility of the concerned department.
- **Performance Testing:** Ensuring that the all installed active equipments meets expressed performance requirements. The definition and review of the parameters for performance testing shall be the responsibility of the BIDDER and the Composite Team respectively.

d. Change Management

Plan for changes to be made - draw up a task list, decide on responsibilities, coordinate with all the affected parties, establish and maintain communication between parties to identify and mitigate risks, manage the schedule, execute the change, ensure and manage the port change tests and documentation.

e. Physical Infrastructure Management and Maintenance Services

All the devices that will be installed in the ICOC as part of the physical infrastructure should be SNMP enabled/manageable with BMS and shall be centrally and remotely monitored and managed on a 24 x 7 x 365 basis. Industry leading infrastructure management solution should be deployed to facilitate monitoring and management of the ICOC Infrastructure on one integrated console. The physical infrastructure management and maintenance services shall include:

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

- Proactive and reactive maintenance, repair and replacement of defective components (IT and Non-IT/ Hardware and Software). The cost for repair and replacement shall be borne by the selected bidder.
- The selected bidder shall have to stock and provide adequate onsite and offsite spare parts and spare component to ensure that the uptime commitment as per SLA is met. To provide this service it is important for the selected bidder to have back to back arrangement with the OEMs. The selected bidder needs to provide a copy of the service level agreement signed with the respective OEMs.
- Component that is reported to be down on a given date should be either fully repaired or replaced by temporary substitute (of equivalent configuration) within the time frame indicated in the Service Level Agreement (SLA). In case the selected bidder fails to meet the above standards of maintenance, there will be a penalty as specified in the SLA.
- The selected bidder shall also maintain records of all maintenance of the system and shall maintain a logbook on-site that may be inspected by JSCL at any time.

D. Other Services:

i. Water Leak Detection System:

Water leak detection system is required to maximize protection by having continuous monitoring. Detecting small leaks such as condensate water overflow, chiller water leaks, plumbing line cracks, heating/cooling piping leaks, outside seepage and more before damage and downtime occurrence, shall be in the scope of the successful bidder. It shall be installed in CCC room.

ii. Rodent Repellent System:

A rodent repellent system is proposed to chase rodent, rat or mice permanently. These units shall be compact, safe, environmentally friendly and non-irritating pet repeller. It shall be placed in VC and CCC room. For cable roots of network cable refer **Dwg. No. ICT/CC&VC/IP/08; Titled: Proposed Instrumentation Plan.**

iii. Addressable Fire Detection System:

A complete fire detection system having several devices working together to detect and warn people through visual and audio appliances when smoke, fire, carbon monoxide or other emergencies are present shall be installed for the building as a whole. Refer **Dwg No. ICT/CC&VC/F&G/12; Titled: Proposed Plan for Electrical Fixtures.**

iv. Fire Suppression System:

Fire suppression systems shall be used to extinguish/ prevent the spread of fire in the building. It shall use gas to suppress equipment fires. Its specification can be referred to in **5.6 D.** Installation of fire suppression system shall be for the UPS, Server and CCC room.

Refer **Dwg No. ICT/CC&VC/F&G/13; Titled: Proposed Plan for Novac based Fire Suppression System & Dwg No. ICT/CC&VC/F&G/14; Titled: Proposed Plan for Portable Fire Extinguisher.**

Although, the Public Announcement System shall be installed for the whole building.

5.6 Specifications:

A. Civil and Architectural/finishing works:

TECHNICAL SPECIFICATIONS FOR BUILDING WORKS for RUIDP/PWD

Division: JAIPUR

GENERAL TECHNICAL SPECIFICATIONS FOR BUILDING WORKS

1. In the specifications, "as directed"/ "Approved" shall be taken to mean "as directed"/ "approved" by the Engineer-in-charge.
2. Wherever a reference to any Indian Standard appears in the specifications, it shall be taken to mean as a reference to the latest edition of the same in force on the date of agreement.
3. In "Mode of Measurement" in the specification wherever a dispute arises in the absence of specific mention of a particular point or aspect, the provisions on these particular points or aspects in the relevant Indian Standards shall be referred to.
4. All measurements and computations, unless otherwise specified, shall be carried out nearest to the following limits:
 - (i) Length, width and depth (height) -----0.01 Meter.
 - (ii) Areas-----0.01 Mt.
 - (iii) Cubic Contents-----0.01 Cu. Mt.
5. The distance which constitutes lead shall be determined along the shortest practical route and not necessarily the route actually taken. The decision of the Engineer-in-charge in this regard shall be taken as final.
6. Where no lead is specified, it shall mean "all leads".
7. Lift shall be measured from plinth level.
8. Up to "floor two level" means actual height of floor (Maxi. 4 M.) upto 3 Mt. Above plinth level.
9. Definite particulars coverin the items of work, though not mentioned orelucidated in it, specification shall be deemed to be included therein.
10. Reference to specifications of materials as made in the detailed specification of the items of work is in the form of a designation containing the number of the specification of the material and prefix 'M' e.g. 'M-5'.
11. Approval to the samples of various materials given by the Engineer-in-charge shall not absolve the contractor from the responsibility of replacing defective material brought on site or materials used in the work found defective at a later date. The contractor shall have no claim to any payment or compensation whatsoever on account of any such materials being rejected by the Engineer-in-charge.

Section-V: Procurement Entity's RequirementsRFP for Integrated City Operation Centre in existing JSCL building

12. The contract rate of the item of work shall be for the work completed in all respects.

14. Collection of approved materials shall be done at site of work in a systematic manner. Materials shall be stored in such a manner as to prevent damage, deterioration or intrusion of foreign matter and to ensure the preservation of their quality and fitness for the work.

15. Materials, if and when rejected by the Engineer-in-charge, shall be immediately removed from the site of work.

16. No materials shall be stored prior to, during and after execution of a structure in such a way as to cause or lead to damage or overloading of the various components of the structure.

17. All works shall be carried out in a workmanlike manner as per the best techniques for the particular item.

18. All tools, templates, machinery and equipment for correct execution of the work as well as for checking lines, levels, alignment of the works during execution shall be kept in sufficient numbers and in good working condition on the site of the work.

19. The mode, procedure and manner of execution shall be such that it does not cause damage or over loading of the various components of the structure during execution or after completion of the structure.

20. Special modes of construction not adopted in general Engineering practice, if proposed to be adopted by the Contractor, shall be considered only if the contractor provides satisfactory evidence that such special mode of construction is safe, sound and helps in speedy construction and completion of work to the required strength and quality. Acceptance of the same by the Engineer-in-charge shall not, however, absolve the contractor of the responsibility of any adverse effects and consequences of adopting the same in the course of execution of completion of the work.

21. All installations pertaining to water supply and fixtures thereof as well as drainage lines and sanitary fittings shall be deemed to be completed only after giving satisfactory tests by the Contractor.

22. The contractor shall be responsible for observing the rules and regulations imposed under 'Minor Minerals Act' and such other laws and rules prescribed by Government from time to time.

23. All necessary safety measures and precaution including those laid down in the various relevant Indian Standards shall be taken to ensure the safety of men, materials and machinery on the works as also of the work itself.

24. The testing charge of all materials shall be borne by the Contractor unless recovery at one percent towards using charges is separately made.

25. Approval to any of the executed items for the work does not in any way relieve the contractor of his responsibility for the correctness, soundness and strength of the structure as the drawings and specification.

General Technical Specification

M-1. Water:

1.1 Water shall not be salty or brackish and shall be clean, reasonably clear and free from objectionable quantities of silt and traces of oil and injurious alkalies, salts, organic matter and other deleterious material which will either weaken the mortar or concrete or cause efflorescence or attack the steel in R.C.C Container for transport, storage and handling of water shall be clean. Water shall conform to the standards specified I.S 456-1978.

1.2 If required by Engineer-in-charge it shall be tested by comparison with distilled water. Comparison shall be made by means of standard cement tests for soundness, time of setting and mortar strength as specified in I.S.269-1976. Any indication of unsoundness, change in time of setting by 30 minutes or more or decrease of more than 10 per cent in strength of mortar prepared with water sample when compared with the results obtained with mortar prepared with distilled water shall be sufficient cause for rejection of water under test.

1.3 Water for curing mortar, concrete or masonry should not be too acidic or too alkaline. It shall be free of elements which significantly affect the hydration reaction or otherwise interfere with the hardening of concrete during curing or those which produce objectionable stains or other unsightly deposits on concrete or mortar surfaces.

1.4 Hard and bitter water shall not be used for curing.

1.5 Potable water will be generally found suitable for curing mortar or concrete.

M-3. Cement:

3.1 Cement shall be ordinary Portland slag cement as per I.S. 269-1976 or Portland slag cement as per I.S. 455-1976.

M-6 Sand:

6.1 Sand shall be natural sand, clean, well graded, hard strong durable and gritty particle free from injurious amounts of dust clay, kankar nodules, soft or flaky particles shale, alkali, salts organic matter, loam, mica or other deleterious substance and shall be got approved from the Engineer-in-charge. The sand shall not contain more than 8 percent of silt as determined by field test. If necessary the sand shall be washed to make it clean.

6.2 Coarse Sand: The fineness modulus of coarse sand shall not be less than 2.5 and shall not exceed 3.0.

6.3 He sieve analysis or course shall be as under:

Percentage by weight Passing Sieve	I.S. Sieve Designation	Percentage by weight Passing sieve
4.75 mm.100	600 Micron	30-100
2.36 mm.90 to 100	300 Micron	5-70
1.18 mm.70-100	150 Micron	0-50

6.4 Fine Sand: The fineness modulus shall not exceed 1.0. The sieve analysis of fine sand shall be as under:

Percentage by weight I.S. Sieve Passing through Designation	I.S. Sieve Designation	Percentage byweight Passing through
4.75 mm.100	600 Micron	40-85
2.36 mm.100	300 Micron	5-50
1.18 mm.70-100	150 Micron	0-10

M-11. Cement Mortar:

11.1 Water shall conform to specification M-1.

Cement: Cement shall conform to specification M-3.

Sand: Sand shall conform to M-6.

11.2 Proportion of Mix:

11.2.1 Cement and sand shall be mixed to specified proportion, sand being measured by measuring boxes. The proportion of cement will be by volume on the basis of 50 Kg/Bag as directed.

11.3 Preparation of Mortar:**11.3.1** In hand mixed mortar cement and sand in the specified proportions shall be thoroughly mixed dry on a clean impervious platform by turning over at least 3 times or more till a homogenous mixture of uniform color is obtained. Mixing platform shall be so arranged that no deleterious extraneous material shall get mixed with mortar or mortar shall flow out. While mixing, the water shall be gradually added and thoroughly mixed to form a stiff plastic mass of uniform color so that each particle of sand shall be completely covered with a film of wet cement. The water cement ratio shall be adopted as directed.

11.3.1 The mortar so prepared shall be used within 30 minutes of adding water. Only such quantity of mortar shall be prepared as can be used within 30 minutes.

M-15 Bricks:

15.1The bricks shall be hand or machine molded and made from suitable soils and klin- burnt. They shall be free from crack and nodules of free lime. They shall have smooth rectangular faces with sharp corners and shall be of uniform color. The bricks shall be molded with a frog of 100 mm. x 40 mm. and 10 mm. to 20 mm. deep on one of its flat sides. The bricks shall not break when thrown on the ground from a height of 600 mm.

15.2 The size of modular bricks shall be 190 mm x 90 mm x 90 mm.

15.3 The size of the conventional bricks shall be as under: (9" x 4 3/8 "x 2 3/4") 225 x 110 x 75 mm.

15.4 Only bricks of one standard size shall be used on one work. The following tolerances shall be permitted in the conventional size adopted in a particular work. Length: 1.8(3.0 mm.) Width: 1/6" (1.51 mm.) Height: 1/6" (1.50 mm.)

15.5 The crushing strength of the bricks shall not be less than 35 Kg./Sq. Cm. The average water absorption shall not be more than 20 percent by weight. Necessary tests for crushing strength and water absorption etc. shall be carried out as per I. S. 3495 (Part-I to IV) 1976.

M-26 Shuttering:

26.1 The shuttering shall be either of wooden planking of 30 mm. minimum thickness with or without steel lining or of steel plates stiffened by steel angles. The shuttering shall be supported on battens and beams and props of vertical bellies properly cross-braced

together so as to make the centring rigid. In places of bullie props, brick pillar of adequate section built in mud mortar may be used.

26.2 The form work shall be sufficiently strong and shall have camber, so that it assumes correct shape after deposition of the concrete and shall be able to resist forces caused by vibration of live load of men working over it and other incidental loads associated with it. The shuttering shall have smooth and even surface and its joints shall not permit leakage of cement grout.

26.3 If at any stage of work during or after placing concrete in the structure, the form work sags or bulges out beyond the required shape of the structure, the concrete shall be removed and work redone with fresh concrete and adequately rigid form work. The complete formwork shall be got inspected by and got approved from the Engineer-in-charge, before the reinforcement bars are placed in position.

26.4 The props shall consist of bullies having 100 mm. minimum diameters measured at mix length and 80 mm. at thin end and shall be placed as per design requirement. These shall rest squarely on wooden sole plates 40 mm. thick and minimum bearing area if 0-10 sq. m. laid on sufficiently hard base.

26.5 Double wedges shall further be provided between the sole plate and the wooden props so as to facilitate tightening and easing of shuttering without jerking the concrete. The timber used in shuttering shall not be so dry as to absorb water from concrete and swell or bulge nor so green or wet as to shrink after erection. The timber shall be properly sawn and planed on the sides and surface coming in contact with concrete. Wooden form work with metal sheet lining or steel plates stiffened by steel angles shall be permitted.

26.6 As far as practicable, clamps shall be used to hold the forms together and use of nails and spikes avoided.

26.7 The surface of timber shuttering that would come in contact with concrete shall be well wetted and coated with soap solution before the concreting is done. Alternatively coat of raw linseed oil or oil of approved manufacturer may be applied in place of soap solution. In case of steel shuttering either soap solution or raw linseed oil shall be applied after thoroughly cleaning the surface. Under no circumstances black or burnt oil shall be permitted.

26.8 The shuttering for beams and slabs shall have camber of 4 mm. per meter (1 in 250) or as directed by the Engineer-in-charge so as to offset the subsequent deflection. For cantilevers, the camber at free end shall be 1/50 of the projected length or as directed by the Engineer-in-charge.

M-43 Fixtures and fastenings:

43.1 General:

43.1.1 The fixtures and fastenings, that is butt, hinges, tee and strap hinges, sliding door bolts, tower bolts, door latch, bath room latch, handles, door stoppers, casement window fasteners, casement stays and ventilators catch shall be made of the metal as specified in the item or its specifications.

43.1.2 They shall be of iron, brass, aluminium, chromium plated iron, chromium plated brass, copper oxidized iron, copper oxidized brass or anodized aluminium as specified.

43.1.3 The fixtures shall be heavy, medium or light type. The fixtures and fastenings shall be smooth finished and shall be such as will ensure ease of operation.

43.1.4 The samples of fixtures and fastenings shall be got approved as regards quality and shape before providing them in position.

43.1.5 Brass and anodized aluminium fixtures and fastenings shall be bright finished

43.2 Holdfasts:

43.2.1 Holdfasts shall be made from mild steel flat 30 cm. length and one of the hold fasts shall be bent at right angle and two nos. of 6 mm. diameter holes shall be made in it for fixing it to the frame with screws. At the other end, the holdfast shall be forked and bent at right angles in opposite directions.

43.3 Butt hinges:

43.3.1 Railway standard heavy type butt hinges shall be used when so specified.

43.3.2 Tee and strap hinges shall be manufactured from M. S. Sheet.

43.4 Siding door bolts (Aldrops): **43.4.1** The aldrops as specified in the item shall be used and shall be got approved.

43.5 Tower bolts (Barrel Type): **43.5.1** Tower bolts as specified in the item shall be used and shall be got approved.

43.6 Door latch: **43.6.1** The size of door latch shall be taken as the length of latch.

43.7 Bathroom Latch: **43.7.1** Bathroom latch shall be similar to tower bolt.

43.8 Handle: The size of the handles shall be determined by the inside grip length of the handles. Handles shall have a base plate of length 50 mm. more than the size of the handle.

43.9 Door Stoppers: **43.9.1** Door stoppers shall be either floor door stopper type or door catch type. Floor stopper shall be of overall size as specified and shall have a rubber cushion.

43.10 Door Catch: **43.10.1** Door catch shall be fixed at a height of about 900 mm. from the floor level so that one part of the catch is fitted on the inside of the shutter and the other part is fixed in the wall with necessary wooden plug arrangements for appropriate fixity. The catch shall be fixed 20 mm. inside the face of the door for easy operation of catch.

43.11 Wooden Door Stop with hinges:

43.11.1 Wooden door stop of size 100 mm x 60 mm x 40 mm shall be fixed on the door frame with a hinge of 75 mm size and at a height of 900 mm. from the floor level. The wooden door stop shall be provided with 3 coats of approved oil paints.

43.12 Casement window Fastener: Casement window fastener for single leaf window shutter shall be left or right handled as directed.

43.13 Casement stays (Straight Peg Stay) :

43.13.1 The stays shall be made from a channel section having three holes at appropriate position so that the window can be opened either fully or practically as directed. Size of the stay shall be 250 mm. to 300 mm. as directed.

43.14 Ventilator Catch :

43.14.1 The pattern and shape of the catch shall be as approved.

43.15 Pivot: **43.15.1** The base and socket plate shall be made from minimum 3 mm. thick plate and projected pivot shall not be less than 12 mm. diameter and 12 mm. length and shall be firmly riveted to the base plate in case of iron pivot and in single piece base plate in the case of brass pivot.

M-44 Paints :

44.1 (A) Oil Paints:

44.1.1 Oil paints shall be of the specified color and shade, and as approved. The ready mixed paints shall only be used. However, if ready mixed paint or specific shade or tint is not available, white ready mixed paint with approved strainer will be allowed. In such a case, the contractor shall ensure that the shade of the paint so allowed shall be uniform.

44.1.2 All the paints shall meet with following general requirements:

- (i) Paint shall not show excessive setting in a freshly opened full can and shall easily be re-depressed with a paddle to a smooth homogeneous state. The paint shall show no curdling, levering, caking or color separation and shall be free from lumps and skins.
- (ii) The paint as received shall brush easily, possess good leveling properties and show no running or sagging tendencies.
- (iii) The paint shall not skin within 48 hours in three quarters filled closed container.
- (iv) The paint shall dry to a smooth uniform finish free from roughness, grit, unevenness and other imperfections.

44.1.3 Ready mixed paint shall be used exactly as received from the manufactures and generally according to their instructions and without any admixtures whatsoever.

DETAILED SPECIFICATIONS – MASONARY WORK

6.12 (A) Brick work using common burnt clay building bricks having crushing strength not less than 75 Kg./Sq. Cm. in foundations and plinth in cement mortar 1 : 4 (1 cement : 5 fine sand) modular bricks.

1.0 Materials: Water shall conform to M-1. cement shall conform to M-3 sand shall conform to M-6. Brick shall conform to M-15. Cement mortar shall conform to M-11.

2.0 Workmanship:

2.1 Proportion:

2.1.1 The proportion of the cement mortar shall be 1 : 5 (1 cement : 5 fine sand) by volume.

2.2 Wetting of bricks:

2.2.1 The bricks required for masonry shall be thoroughly wetted with clean water for about two hours before use or as directed. The cessation of bubbles, when the bricks are wetted with water is an indication of through wetting of bricks.

2.3 Laying:

2.3.1 Bricks shall be laid in English bond unless directed otherwise. Half or cut bricks shall not be used except where necessary to complete to bond closers in such case shall be cut to required size and used near the ends of walls.

2.3.2 A layer of mortar shall be spread on full width for suitable length of the lower course, Each brick shall first be properly bedded and set home by gently tapping lapping with handle of trowel or wooden mallet. Its side face shall be flushed with mortar before the next brick is laid and pressed against it. On completion of course, the vertical joints shall be fully filled from the top with mortar.

2.3.3 The walls shall be taken up truly in plumb. All courses shall be laid truly horizontal and all vertical joint shall be truly vertical. Vertical joints in alternate course shall generally be directly one over the other. The thickness of brick course shall be kept uniform.

2.3.4 The brick shall be laid with frog upwards. A set of tools comprising of wooden straight edges, mason's spirit level, square half meter rub, and pins, string and plumb, shall be kept on the site of work for frequent checking during the progress of work.

2.3.5 Both the faces of walls of thickness greater than 23 cms. shall be kept in proper place. All the connected brick work shall be kept not more than one meter over the rest of the work. Where this is not possible the work shall be raked back according to bond (and not left toothed) at an angle not steeper than 45 degrees.

2.3.6 All fixtures, pipes, outlets of water, hold fasts of doors and windows etc. which are required to be built in wall shall be embedded in cement mortar.

2.4 Joints :

2.4.1 Bricks shall be so laid that all joints are quite flush with mortar. Thickness of joints shall not exceed 12 mm. The face joints shall be raked out as directed by taking tools daily during the progress of work, when the mortar is still green so as to provide key for plaster or pointing to be done.

2.4.2 The face of brick shall be cleaned the very day on which the brick work is laid and all mortar dropping removed.

2.5 Curing

2.5.1 Green work shall be protected from rain suitably. Masonry work shall be kept moist on all the faces for a period of seven days. The top of masonry work shall be kept well wetted at the close of the day.

2.6 Preparation of foundation bed :

2.6.1 If the foundation is to be laid directly on the excavated bed the bed shall be leveled, cleared of all loose materials, cleaned and wetted before starting masonry. If masonry is to be laid on concrete footing the top of concrete shall be cleaned and moistened. The contractor shall obtain the engineer's approval for the foundation bed, before foundation masonry is started. When pucca flooring is to be provided flush with the top to plinth the inside plinth offset shall be kept lower than the outside plinth top by the thickness of the flooring.

3.0 Mode of measurements and payment :

3.1 The measurements of this item shall be taken for the brick masonry fully completed in foundation upto plinth. The limiting dimensions not exceeding those shown on the plans or as directed shall be final. Battered, tapered and curved portions shall be measured net.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

3.2 No deduction shall be made from the quantity of brick work, nor any extra payment made for embedding in masonry or making holes in respect of following item :

- (1) Ends of joints, beams, posts, girders, rafters, purlins, trusses, corbel steps etc. where cross sectional area does not exceed 500 Sq. Cm.
- (2) Opening not exceeding 1000 Sq. Cm.
- (3) Wall plates and bed plates, bearing of slabs, chhajjas and the like whose thickness does not exceed 10 Cms. and the bearing does not extend to the full thickness of wall.
- (4) Drainage holes, and recesses for cement concrete blocks to embed hold fasts for doors, windows etc.
- (5) Iron fixtures, pipes upto 300 mm. dia, hold fasts and doors and windows built into masonry and pipes etc. for concealed wiring.
- (6) Forming chases of section not exceeding 350 Sq. Cm. in masonry.

3.3 Apertures for fireplaces shall not be deducted nor shall extra labor required to make splaying of jambs, threading and making Arches over the aperture be paid for separately.

3.4 The rate shall be for a unit of one cubic meter.

6.19(A) Bricks work using common burnt clay building bricks having crushing strength not less than 35 Kg./per Sq. Cm. for super structure above plinth level upto floor two level in cement mortar 1:5 (1 Cement : 5 fine sand) modular bricks.

1.0 Materials :

1.1 Brick shall conform to M-15. Cement mortar shall conform M-11.

2.0 Workmanship :

2.1 The relevant specifications of item No.6.12 (A) shall be followed except that the masonry work shall be carried out above plinth level to floor two level i.e. for ground floor.

2.2 The frames of doors, windows, cupboards etc. shall be housed into the brick work at the correct location and level as directed. The heavy steel doors, window frames etc. shall be built in with work, but for ordinary steel doors and windows required opening for frames, hold-fasts etc. shall be left in the wall and frames embedded latter on in order to avoid damage to the frames.

2.3 Necessary scaffolding shall be provided. The supports of the scaffolding shall be sound and strong tied together with horizontal coarse only. Minimum number of holes shall be left in brick work for supporting horizontal scaffolding holes. The contractor is responsible for providing and maintaining sufficiently strong scaffolding so as to withstand all loads likely to come upon it.

2.4 For the face of brick work, where plastering is to be done, joints shall be racked out to a depth not less than thickness of joints. The face of brick work shall be cleansed and mortar dropping removed on very same day that brick work is laid.

3.0 Mode of measurement :

3.1 The masonry work of G.F. i.e. above plinth level to floor two level shall be measured and paid under this item.

3.2 Brick work in parapet shall be included in the corresponding masonry item of story immediately below the floor above which the parapet is built.

3.3 No deductions shall be made from quantity of brick work. No extra payment shall be made for embedding in masonry or making holes in respect of following items :

(1) Ends of joints, beams, posts, girders, rafters, purlins trusses corbel, steps etc. where cross sectional area does not exceed 500 Sq. Cm.

(2) Opening not exceeding 1000 Sq. Cm.

(3) Wall plate, sand bed plates, bearing of slab, chhajjas and like whose thickness does not exceed 10 Cms. and the bearing does not extend the full thickness of wall.

(4) Drainage holes and recesses for cement concrete blocks to embed hold fasts for doors, windows etc.

(5) Iron fixtures, pipes upto 300 mm. dia. hold fasts of doors, and windows built into masonry and pipes etc. for concealed wiring.

(6) Forming charges of section not exceeding 350 Sq. Cm. in masonry.

(7) Apertures for fire places, shall not be deducted nor shall extra labor required to make spaying of Jamb, threading and making trenches over the aperture be paid for separately.

3.4 The rate shall be for a unit of one cubic meter.

6.30I(A) Half brick masonry in common burnt clay building bricks having crushing strength not less than 75 Kg./Sq. cm. in cement mortar 1:4 (1 Cement : 4 Coarse sand) in super structure above plinth level upto floor two level with modular bricks.

1.0 Materials :Bricks shall conform to M-15. Water shall conform to M-1. Cement shall conform to M-3. Sand shall conform to M-6. Cement mortar shall conform to M-11.

2.0 Workmanship :

2.1 Relevant specifications of bricks, wetting and laying of bricks, joints, curing etc. shall conform to item No. 6.19(A) except the brick work of half bricks shall be carried out.

2.2 Cement mortar used in masonry work shall be in proportion of 1 part of cement and 4 parts of sand by volume.

2.3 All bricks shall be laid stretcher wise, braking joints with those in the upper and lower courses. The wall shall be taken truly plumb. All courses shall be laid truly horizontal and all vertical joints shall be truly vertical. The bricks shall be laid with frogs upwards. A set of masons tools shall be maintained on work as required for frequent checking.

3.0 Mode of measurements and payment :

3.1The half brick masonry work in foundation and plinth shall be measured under this item, the limiting dimensions shall not exceed those shown in the plan or as directed. Any work done extra over the specified dimensions shall be ignored.

3.2 The relevant specifications of item No. 6.12 shall be followed. The length shall be measured nearest to one Cm.

3.3 The rate shall be for a unit of Sq. meter.

6.30I (B) Half brick masonry in common burnt clay building bricks having crushing strength not less than 75 Kg./Sq. cm. in cement mortar 1:4 (1 Cement : 4 Coarse sand) in super structure above plinth level upto floor two level with conventional bricks.

1.0 Materials & Workmanship :

1.1 The relevant specifications of item No. 6.30 (A) shall be followed for bricks. Wasting of bricks, joint, curing, except that the bricks to be used shall be conventional bricks instead of Modular bricks.

2.0 Mode of measurements and payment :

2.1 The limiting dimensions shall no exceed those shown in the plan or as directed. Any work done extra over specified dimensions shall be ignored.

6.30 IV (A) Half brick masonry in common burnt clay building bricks having crushing strength not less than 75 Kg./Sq. cm. in lime cement mortar 1:4 (1 Cement : 4 Coarse sand) with hoop iron 25 mm x 1.6 mm. or equivalent reinforcement at every third coarse embedded in cement mortar in foundation and plinth with modular bricks.

1.0 Materials : Bricks shall conform to M-15. Water shall conform to M-1. Cement shall conform to M-3. Sand shall conform to M-3. Sand shall conform to M-6. Cement mortar shall conform to M-11. M. S. reinforcement shall conform to M-18.

2.0 Workmanship :

2.1 Relevant specification of bricks wetting and laying of bricks, joints, curing, scaffolding etc. shall conform to item No. 6.30 (I)-A except the following :-

2.2 Cement mortar used in masonry work shall be proportion to 1 part of cement and 5 parts of sand by volume and shall conform to M-11 and this work is for half brick thickness for partitions walls.

2.3 The hoop iron 25 mm. x 1.6 mm. or equivalent reinforcement shall be provided at every third course. The ends of reinforcement shall be fully embedded in mien walls on both sides as directed. Reinforcement shall be placed on the top of the bottom-most course. Laps shall be of 15 cms. of mild steel bars of hoop iron.

2.4 The joints in the course where reinforcement is placed shall admit of mortar cover to the reinforcement.

3.0 Mode of measurements and payment :

3.1 The rate shall be for half brick masonry work including providing specified reinforcement, the limiting dimensions not exceeding those in the plan or as directed. The length shall be measured nearest to one Cm.

3.2 Any work done extra over specified dimensions shall be ignored.

3.3 The rate shall be for a unit of one Sq. meter.

**DETAILED SPECIFICATIONS FOR PLASTERING AND PAINTS AS PER
"SCHEDULE OF RATES"**

17.58. (I) 10 mm. thick cement plaster in single coat on fair side of brick concrete walls for interior plastering upto floor two level and finished even and smooth in (i) C.M. 1:4.

1.0. Materials :

1.1. Water M-1. The cement mortar proportion 1:4 shall conform to M-13.

2.0. Workmanship :

2.1. Scaffolding : Wooden ballics, bamboos, planks, treatles and other scaffolding shall be sound. These shall be properly examined before erection and use. Stage scaffolding shall be provided for ceiling plaster which shall be independent of the walls.

2.2. Preparation of back-ground :

2.2.1. The surface shall be cleaned of all dust, loose mortar droppings, traces of algae, afforescence and other foreign matter by water or by brushing. Smooth surface shall be roughened by wire brushing if it is not hard and by racking if it is hard. In case of concrete surface, if a chemical retarder has been applied to the form work, the surface shall be roughened by wire brushing and all the resulting dust and loose particles cleaned off and care shall be taken that none of the retarders is left on the surface. Trimming of projections on brick/concrete surface where necessary shall be carried out to get an even surface.

2.2.2. Racking of joints in case of mansonry where necessary shall be allowed to dry out for sufficient period before carrying out the plaster work.

2.2.3. The work shall not be soaked but only damped evenly before applying the plaster. If the surface becomes dry such area shall be moistened again.

2.2.4. For external plaster, the plastering operation shall be started from top floor and carried downwards. For internal plaster, the plastering operations may be started whenever the building frame and cladding work are ready and the temporary supporting ceiling resting on the wall of the floor have been removed. Ceiling plaster shall be completed before starting plaster to walls.

2.3. Applications of plaster :

2.3.1. The plaster about 15 x 15 cms. Shall be first applied horizontally and vertically at not more than 2 metres intervals over the entire surface to serve as gauge. The surfaces of these gauges shall be truly inplane of the finished plastered surface. The mortar shall then be applied in uniform surface slightly more than the specified thickness, then brought to a true surface by working a wooden straight edge reaching across the gauges with small upward and sideways movement at a time. Finally, the surface shall be finished off true with a trowel or wooden float according as a smooth or a sandy granular texture is required. Excessive trowelling or overworking the float shall be avoided. All corners, arrises, angles and junctions be truly vertical or horizontal as the case may be and shall be carefully finished. Rounding or chamfering corners, arrises junctions etc. shall be carried out with proper templates to the size required.

2.3.2. Cement plaster shall be used within half an hour after addition of water. Any mortar or plaster which is partially set shall be rejected and removed forthwith from the size.

2.3.3. In suspending the work at the end of the day, the plaster shall be left out clean to the line both horizontally and vertically. When recommencing the plaster, the edges of the old work shall be scraped clean and wetted with cement putty before plaster is applied to the adjacent areas to enable the two to properly join together. Plastering work shall be closed at the end of the day on the body of the wall and nearer than 15 cm. To any corners or arrises. Horizontal joints in plaster work shall not also occur on parapet tops and copings as these

invariably lead to leakage. No portion of the surface shall be left out initially to be packed up later on.

2.3.4. Each coat shall be kept damp continuously till the next coat is applied or for a minimum period of 7 days. Moistening shall commence as soon as plaster is hardened sufficiently. Soaking of walls shall be avoided and only as much water as can be readily absorbed shall be used, excessive evaporation on the sunny or windward side of building in hot air or dry weather shall be prevented by hanging mattings or gunny bags on the outside of the plaster and keeping them wet.

3.0. Mode of measurements & payment :

3.1. The rate shall include the cost of all materials, labour and scaffolding etc. involved in the operations described under workmanship.

3.2. All plastering shall be measured in square metres unless, otherwise specified, Length, breadth or height shall be measured correct to centimeter.

3.3. Thickness of the plaster shall be exclusive of the thickness of the key i.e. grooves or open joints in brick work, stone work etc. or space between laths. Thickness of plaster shall be average thickness with minimum 10 mm. at any point on this surface.

3.4. This item includes plastering upto floor two level.

3.5. The measurement of wall plastering shall be taken between the walls or partition (dimensions before plastering being taken) for length and from the top of floor or skirting to ceiling for height. Depth of cover of cornices if any shall be deducted.

3.6. Soffits of stairs shall be measured as plastering on ceilings. Flowing soffits shall be measured separately.

3.7. For jambs, soffits, sills etc. for openings not exceeding 0.5 sq.mt. each in area for ends of joints, beams, posts, girders, steps, etc. not exceeding 0.5 sq. mt. Each in area and for openings exceeding 0.5 sq. mt. And not exceeding 3.00 sq. mt. In each area deductions and additions shall be made in the following manner :

(a) No deductions shall be made for ends of joints, beams, posts etc. and openings not exceeding 0.5 sq.mt. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these opening for finish to plaster around ends of joints, beams, posts etc.

(b) Deduction for openings exceeding 0.5 sq.mt. but not exceeding 3 sq.mt. each shall be made as follows and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings.

(i) When both faces of all wall are plastered with same plaster, deduction shall be made for one face only.

(ii) When two faces of wall are plastered with different types of plaster or if one faces is plastered and the other pointed, deductions shall be made from the plaster or pointing on the side of frame for door, window etc. on which width of reveals is less than that on the other side but no deductions shall be made on the outer side. Where width of reveals on both faces of all are equal, deductions of 50% of area of opening on each face shall be made from area of plaster and/or pointing as the case may be.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

3.8. For openings having door frames equal to projecting beyond the thickness of wall, full deduction for opening shall be made from each plastered face of the wall.

3.9. In case of openings of area above 3 sq.mt. each, deduction shall be made for opening but jambs, soffits and sills shall be measured.

3.10. The rate shall be for unit of one sq. metre.

17.61. (II) 20 mm. thick cement plaster in single coat on rough side of single or half brick walls for interior plastering upto floor two level, finished even and smooth in cement mortar 1:4 (1 cement : 4 sand).

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No. 17.59 (I) shall be followed except that the thickness of item plastering shall be 20 mm. in C.M. 1:4.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item no. 17.59 (I) shall be followed.

2.2. The rate shall be for a unit of one sq.mt.

17.69. Extra over item 58 to 64 for finishing with a floating coat of net cement slurry.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No. 17.58 and 17.61 shall be followed for materials and workmanship except that this work is only of providing smooth cement finish with floating coat of neat cement slurry.

1.2. The coat of cement and fine sand mortar of proportion 1:1 (1.5 mm. thick about) shall be applied to the plastered surface with a trowel to provide uniform texture while the base coat is still plastic.

1.3. In any continuous face of wall the finishing treatment should be carried out continuously and day to day braked made to coincide with architectural breaks in order to avoid unsightly junctions.

1.4. Curing :All the plaster work shall be kept damp continuously for a period of 7 days.

2.0. Mode of measurements & payment :

2.1. The payment shall be made for a unit of 1.0 sq.mt. of work done over and above the finishing of work of base coat.

2.2. The relevant specifications of item of base coat shall be followed for measurements and payment.

2.3. The rate shall be for a unit of one sq. metre.

17.70. Extra over items 17.58 to 17.61 for providing and mixing water proofing materials in cement mortar in proportion recommended by the manufacturers.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No. 17.58 and 17.61 shall be followed except that the water proofing materials of approved make shall be added to the cement at the rate specified

or as directed by the Engineer-in-charge. The proportion of water proofing materials to be mixed with 50 kg. Bags shall be as recommended by the manufactures of the water proofing material.

2.0. Mode of measurements & payment :

2.1. The payment shall be made extra for this work over and above the plaster work.

2.2. The rate shall be for a unit of 1 kg. Of water proofing materials used in 1 bag weighing 50 Kg. Cement used extra over the rate of plastering work.

17.91. Extra over items 17.59 to 17.61 for plastering on ceiling and soffits of stair upto floor two level instead of plastering on walls.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No. 17.59(l) shall be followed except that this work is for ceiling soffits of stairs upto two floor level instead of plaster in walls.

1.2. The smooth concrete surface shall be suitably roughened to provide necessary bond before plastering.

2.0. Mode of measurements & payment :

2.1. The payment shall be made for a unit of one sq.mt. of work done, extra over and above the payment plaster work on wall surfaces.

2.2. The rate shall be for a unit of one sq. metre.

**DETAILED SPECIFICATIONS FOR WHITE WASHING & DISTEMPERING
AS PER "SCHEDULE OF RATES"**

18.11. While washing with undecorated wall surfaces (two coats) to given an even shade including through by brooming the surface to remove all dirt, dust, mortar drops and other foreign matter.

1.0. Materials :

1.1. The elearcolle shall be made from glue and boiling water by Mixing 1 kg. Mixture shall be suitably tinted where required for use under coloured distemper if directed. Glue shall conform to I.S. 852-1969 (Specifications for animal glue).

1.2. line used shall be freshly burnt class 'C' Lime (fat lime) and white in colour conforming to I.S. 712-1973/ Water shall conform to M-1 Best quality of gum shall be used in the preparation of white wash. Ultramarine blue or Indigo : This shall conform to I.S. 55-1970 for points, and shall be used for preparation of white wash. Pigments : Mineral colours, not affected by lime shall be used in preparing colour wash.

2.0. Workmanship :

2.1. Preparation of white wash solution :

Surface already white or colour. The fat lime shall be slaked at site and shall be mixed and stirred with about five litres of water for 1 kg. Of unslaked lime to make a thin cream. This shall be allowed to stand for a period of 24 hours and then shall be screened through a clean coarse cloth, 4 kg. Of gum dissolved in hot water shall be added to each cubic metre of lime cream. Small quantity of ultramarine blut (Upto 3 gms. Per kg. Of lime) shall also be added to the last two coats of white wash solution and the whole solution shall be stirred thoroughly before use.

2.1. Preparation of surface :

2.2.1. The surface shall be thoroughly cleaned of all dust, dirt, mortar croppings and other foreign matter before white wash is to be applied.

2.2.2. The surface spoiled by smoke soot shall be scraped with steel wire brushes or steel scrapers or shall be rubbed with over-burnt surkhi or brick bats. The surface shall be then broomed to remove all dust, dirt and shall be washed with clean water.

2.2.3. Oil or grease spots shall be removed by suitable chemical and smooth surface shall be rubbed with wire brushes.

2.2.4. All unsound portion of the surface plaster shall be removed to full depth of plaster in rectangular patches and plastered again after raking the masonry joints properly. Such portion shall be wetted and allowed to dry. They shall then be given one coat of white wash.

2.2.5. All unnecessary nails shall be removed, the holes cracks patches etc. shall be made good with materials similar in composition to the surface to be prepared.

2.3. Scaffolding : Wherever scaffolding is necessary it shall be erected in such a way that as far as possible on part of scaffolding shall rest against the surface to be white or colour washed. A properly secured strong and well tied suspended platform (Zoola) may be used for white washing of ceilings proper stage scaffolding shall be erected where necessary.

2.4. Application of white wash :

2.4.1. On the surface so prepared the white wash shall be applied with "Moon" brush. The first stroke of the brush shall be from top downwards, another from bottom upwards over the first stroke and similarly one stroke from the right another from the left, over the first stroke brush before it dries. This will form one coat. Each coat shall be allowed to dry before next coat is applied. Number of coats as specified in item shall be applied. It shall present smooth and uniform finish free from brush marks and it should not come off easily when rubbed with finger.

2.4.2. Splashing and dropping if any on the doors and windows, ventilators etc. shall be removed and the surface cleaned.

2.4.3. Priming and Alkali resistant treatments, scraping of surface washing etc. surface spoiled by smoke soot removed of oil and great spots treatment for infection with efflorescence moulds moss, fungi algae and lichen and patch repairs to plaster. Wherever done shall not be paid extra.

3.0. Mode of measurements & payment :

3.1. All the work shall be measured in the decimal system as under :

(a) Dimensions shall be measured to the nearest 0.01 M.

(b) Area in individual items shall be worked out to the nearest 0.01 Sq.mt.

All the work shall be measured in sq.mt. Deductions for jambs, soffits, sills etc. for opening not exceeding 0.5 sq.mt. each in area for ends of joints, posts, beams, girders, steps etc. not exceeding 0.5 sq.mt. each in area and for opening exceeding 0.3 sq.mt. and not exceeding 3.0 sq.mt. each in area deductions and additions shall be made as under :

3.2. No deductions shall be made for ends of joints beams, posts etc. and openings not exceeding 0.5 sq.mt. each. No addition shall be made for reveals, jambs, soffits, sills etc. of these openings :

(a) When both the faces or walls are provided with finish, deduction shall be made for one face only.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

(b) When each face of walls are provided with different finish deduction shall be made for that side of frame for door, windows etc. on which width of reveals is less than that of the other side, where width of reveals on both faces of wall are equal, deduction of 50% of area of opening on each face shall be made from total area of finish.

(c) When only one face of wall is treated and the other face is not treated, full deduction shall be made if the width of reveal on the treated side is less than that on the untreated side, but if the width of the reveal is equal or more than on the untreated side neither deductions nor additions be made for reveals, jambs, soffits, sills etc.

3.4. In case of area of opening exceeding 3 sq.mt.each, deduction shall be made for openings but jambs, soffits, shall be measured.

3.5. No deduction shall be made for attachment such as casing, conducts, pipe, electric wiring and the like.

3.6. Corrugated surfaces shall be measured flat as fixed and not girth. The quantities so measured shall be increased by the following percentage and the resultant shall be included with the general areas.

(a) Corrugated steel sheets 14%

(b) Corrugated A.C. sheets 20%

(c) Semi Corrugated A.C. sheets 10%

(d) Nainital pattern roof (Plain sheeting with rolls) 10%

(e) Nainital pattern roof (with corrugated sheets) 25%

3.7. Cornices and other wall features, when they are not picked out in a different finish/colour shall be girthed and included in the general area.

3.8. The rate shall include the cost of all materials, labour, scaffolding, protective measures etc. involved in all the operations described above.

3.9. The rate shall be for a unit of one sq.mt.

18.12. White washing with lime on decorated wall surface (one coat) to give an even shade including thoroughly brooming the surface to remove dirt, dust mortar drops and loose scales of lime wash and other foreign matter.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No.18.11 shall be followed except that the white washing work shall be carried out on decorated wall surface in single coat.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.18.11 shall be followed.

2.2. The rate shall be for a unit of one sq. metre.

18.13. Extra over item 18.11 and 18.12 for every subsequent coat of white washing with lime on wall surfaces.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No.18.11 shall be followed except that the this work is for extra coat over and above two coats on wall surface.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.18.11 shall be followed except that the payment of subsequent coat shall be made extra over and above the item No.18.11 for every subsequent coat applied.

2.2. The rate shall be for a unit of one sq. metre.

18.18. Colour washing with lime on decorated wall surfaces (one coat) to give an even shade including thoroughly brooming the surface to remove all dirt dust, mortar drops and loose scales of lime wash and other foreign matter.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No.18.17 shall be followed except that the colour washing shall be carried out on decorated wall surfaces in one coat.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.18.17 above shall be followed.

2.2. The rate shall be for a unit of one sq. metre.

18.33. Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete.

1.0. Materials & Workmanship :

1.1. All loose pieces and scales shall be removed by sand papering and surface shall be cleared of all greasy, dust, dirt, etc. on decorated wall surface : Where heavy scaling has taken place, the entire surface shall be scrapped by means of steel scrappers so as to remove all accumulated distemper, leaving clean surfaces. Necessary repairs to the scratches shall be made as directed.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.18.11 shall be followed

2.2. The rate shall be for a unit of one sq. metre.

18.34. Extra over item No.18.33 for removing dry oil bound distemper on ceiling and sloping roofs.

1.0. Workmanship :

1.1. The relevant specifications of item No.18.33 shall be followed except that removing dry oil bound distemper from sloping roof, ceiling is to be carried out.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.18.33 shall be followed except that the payment shall be made for removing dry/oil bound distemper from ceiling/sloping roof over and above the rate of item No.18.33.

2.2. The rate shall be for a unit of one sq. metre.

18.38. Distemping with dry (water bound) Distemper of approved brand and manufacturer (two coat) and of required shade on undecorated wall surfaces to give an even shade, over and including a priming coat of white washing after thoroughly brooming the surface free from mortar droppings and other foreign matter.

1.0. Materials :

1.1. The dry distemper and primer shall be of approved brand and manufacture. The dry distemper shall be required colour and shade and the same shall conform to I.S. 427-1965. Whiting shall conform to I.S. 63-1964.

2.0. Workmanship :

2.1. Scaffolding : Where scaffolding is required it shall be erected in such a way that as far as possible no part of scaffolding shall rest against the surface to be distempered. A properly secured strong and well tied suspended platform (jools) may be used for distempering. Where ladders are used, pieces of old gunny bags shall be tied at top and bottom to prevent scratches to the walls and floors. For distempering to ceiling, proper stage scaffolding shall be erected where necessary.

2.2. Preparation of Surface :

2.2.1. The undecorated surface to distempered shall be thoroughly brushed free from dust, dirt, grease, mortar, droppings and other foreign matter and sand papered smooth. New plaster surface shall be allowed to dry at least 2 months, before application of distemper.

2.2.2. All necessary nails shall be removed. Pitting in plaster shall be made good with plaster of Paris mixed with dry distemper of the colour to be used. The surface shall then be rubbed down again with a fine grades and paper and made smooth. The surface affected by moulds, moss, fungi, algeelichem, efflorescence etc. shall be treated in accordance with I.S. : 2395 (Part-I) – 1996 before applying distemper. Any unevenness shall be made good by applying putty made of plaster of Paris mixed with water on entire surface including filling up the undulations & then papering the same after it is dry.

2.3. Priming coat :

2.3.1. A priming coat of whiting shall be applied as per item No. 11. over the prepared surface in case of new work on undecorated surface. No coat of with lime shall be used as a priming coat for distemper.

2.3.2. Application of plaster shall be done as under :

The primer shall be applied immediately afterwards. This entire operation will constitute one coat. The surface shall be Vertical strokes shall be applied immediately afterwards. This entire operation will constitute one coat. The surface shall be Finished as uniformly as possible leaving no brush marks. It shall be allowed to dry for at least 48 hours before oil bound Distemper or paint is applied.

2.3.3. Distemper is not recommended to be applied within six month of the completion of wall plaster.

2.4. Proportion of Distemper: The distemper shall be diluted with water or any other prescribed thinner in a manner recommended by the manufactures only. Sufficient quantity of distemper required for one day's work shall be prepared.

2.5. Application of Distemper coat :

2.5.1. For undecorated surface, after the primer coat is dried for at least 48 hours, the surfaces shall be lightly sand papered to make them smooth for receiving the distemper, taking care not to rub cut the priming coat ; All loose particles shall be dusted off after

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

rubbing. Minimum two coats of distemper shall be applied with brushed in horizontal strokes followed immediately by vertical strokes which together shall constitute one coat. The subsequent coats shall be applied after time interval of at least 24 hours between consecutive coats to permit proper drying of the preceding coat. The finished surfaces shall be even and uniform without patches, brush marks; distemper drops etc.

2.5.2. Sufficient quantity shall be mixed to finish one room at a time. The application of a coat in each room shall be finished in one operation and no work shall be started in any room which cannot be completed on the same day.

2.5.3. 15cm. Double bristled brush shall be used. After the day's work, brushes shall be thoroughly washed in hot water with a soap solution and hang down to dry. Old brushes which are dirty and caked with distemper shall not be used on the work.

2.6. Protective Measure :

2.6.1. The surface of door, windows, floors, articles of furniture etc. and such other parts of the building as are not to be distempered shall be protected from being splashed upon. Such surfaces shall be cleaned of distemper splashes if any.

3.0. Mode of measurements & payment :

3.1. Priming coat of distemper, primer scraping of surface spoiled by smoke soot, removal of oil and great spots, treatment for infection of effloresces, mouldmoss, fungi, algae and lichen and patch repairs to plaster shall be included in this item for which nothing extra shall be paid.

3.2. All the work shall be measured net in the decimal system as in places subject to the following limits unless otherwise stated hereinafter.

(a) Dimensions shall be measured to the nearest 0.01 m.

(b) Area in individual items shall be worked out to the nearest 0.01 sq.mt. all work shall be measured in sq.mt. No deductions shall be made for ends of joints, beams, posts etc. and openings not exceeding 0.5 sq.mt. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings nor finish around the ends of joints, beams, posts etc.

3.3. Deduction of openings exceeding 0.5 sq.mt. but not exceeding 3 sq.mt. each shall be made as follows and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings :

(a) When both the faces of wall are provided with the same finish deductions shall be made for one face only.

(b) When each face of wall is provided with different finish, deduction shall be made for that of frame for doors, windows etc. on which width of reveal is less than that of the other side but no deductions shall be made on the other side. Where the width of reveals on both the faces of wall are equal, deduction of 50 % of area of opening on each face shall be made from area of finish.

(c) When only one face of wall is treated and the other face is not treated, full deduction shall be made if the width of the reveal on treated side is less than that on untreated side but if the width of the reveals is equal or more than that of untreated side neither deductions nor additions to be made for reveals; jambs, soffits, sills etc.

3.4. In case of openings exceeding 3 sq.mt. each, deductions shall be made for openings, but jambs, sills and soffits shall be measured.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

3.5. No deductions shall be made for attachments such as casing, conduits, pipes, electric wiring and the like.

3.6. Item includes removing nails, making good holes, cracks, patches with materials similar in composition to the distemper.

3.7. The rate includes cost of all materials, labour, scaffolding, protective measures etc. involved in all the operations described above. This shall also include conveyance, delivery, handling, unloading storing etc.

3.8. The rate shall be for a unit of one sq. mt.

18.44. Distemping (two coats) with oil bound distemper of approved brand and manufacture and of required shade on undecorated wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter also including preparing the surface even and sand papered smooth.

1.0. Materials :

1.1. Oil bound washable distemper and primer shall be of approved brand and manufacture. The distemper shall be of required colour and the same shall conform to I.S. 428-1969.

2.0. Workmanship :

2.1. Scaffolding : Where scaffolding is required, it shall be erected in such a way that as far as possible no part of scaffolding shall rest against the surface to be distempered. A properly secured strong and well tied suspended platform (Joola) may be used for distemping. Where ladders are used, pieces of old gunny bags shall be tied at top and bottom to prevent scratches to the walls and floors. For distemping to ceilings, proper stage scaffolding shall be erected where necessary.

2.2. Preparation of surface :

2.2.1. The undecorated surface to be distempered shall be thoroughly brushed off from dust, dirt, grease, mortar dropping and other foreign matter and sand papered smooth. New plaster surface shall be allowed to dry for atleast 2 months before applications of distemper.

2.2.2. All unnecessary nails shall be removed. Pitting in plaster shall be made good with plaster of Paris mixed with dry distemper of colour to be used. The surface shall then be rubbed down again with a fine grade sand paper and made smooth. A coat of distemper shall be applied over the patches. The surface shall be allowed to dry thoroughly before the regular coat of distemper is allowed. The surface affected by moulds, moss, fungi algae lichens, efflorescence etc. shall be treated in accordance with I.S. 2395 (Part-I) 1966. Before applying distemping, any unevenness shall be made good by applying putty made of plaster of Paris mixed with water on entire surface including filling up the undulation and then sand papering the same after it is dry.

2.3. Priming coat :

2.3.1. A priming coat or distemper prime of approved manufacture and shade shall be

applied over the papered surface in case of new work on decorated surface. If the distemper priming is done after the wall surface dries completely, the distemper primer shall be applied.

2.3.2. Application of primer shall be done as under :

The primer shall be applied with a brush on the clean dry and smooth surface. Horizontal strokes shall be given first and vertical strokes shall be applied immediately afterwards. This entire operation will constitute one coat. The surface shall be finished as uniformly as possible leaving no brush marks. It shall be allowed to dry for atleast 48 hours before oil bound distemper or paint is applied.

2.3.2. Oil bound distemper is not recommended to be applied within six months of the completion of wall plaster.

2.4. Preparation of oil bound distemper : 2.4.1. The distemper shall be diluted with water or any other prescribed thinner in a manner recommended by the manufacture only. Sufficient quantity of distemper required for a day's work shall be prepared.

2.5. Application of Distemper coat :

2.5.1. For undecorated surfaces, after the primer coat is dried for atleast 48 hours, the surface shall be lightly sand papered to make it smooth for receiving the distemper, taking care not to rub out the priming coat. All loose particles shall be dusted off after rubbing. Minimum two coats of distemper shall be applied with brushes in horizontal strokes followed immediately by vertical strokes which together shall constitute one coat. The subsequent coats shall be applied after a time interval of atleast 24 hours between consecutive coats to permit proper drying of the proceeding coat. The finished surface shall be even and uniform without patches, brush marks, distemper drops etc.

2.5.2. Sufficient quantity of distemper shall be mixed to finish one room at a time. The application of a coat in each room shall be finished in one operation and no work shall be started in any room which cannot be completed on the same day.

2.5.3. 15 cm. Double bristled distemper brush shall be used. After day's work brushes shall be thoroughly washed in hot water soap solution and hung down to dry. Old brushes which are dirty and caked with distemper shall not be used on the work.

2.6. Protective measurements : The surfaces of doors, windows, floors, articles of furniture etc. and such other parts of the buildings as are not to be distempered shall be protected from being splashed upon. Such surfaces shall be cleaned off distemper splashes if any.

3.0. Mode of measurements & payment :

3.1. Priming coat of distemper primer, scraping of surface spoiled by stunk soots removal of oil & grease spots, treatment for infection of effloresces mould moss, fungi, algae and lichen and patch repairs to plaster shall be included in this item for which nothing extra shall be paid.

3.2. All the work shall be measured net in the decimal system as in place subject to the following limits unless otherwise stated hereinafter :

(a) Dimensions shall be measured to the nearest 0.01 m.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

(b) Area in individual items shall be worked out to the nearest 0.01 sq.m. All work shall be measured in sq.mt. No deductions shall be made for ends of joints, beams, posts etc. and openings, not exceeding 0.5 sq.mt. each and no addition shall be made for reveals, jambs, soffits, sills etc. of these openings nor for finish around ends of joints, beams, posts etc.

3.3. Deductions of opening exceeding 0.5 sq.mt. but not exceeding 3 m. in each shall be made as follows and net addition shall be made for reveals, jambs, soffits, sills etc. of these openings

(a) When both the faces of walls are provided with same finish : deductions shall be made on one face only.

(b) When each face of wall is provided with different finish, deduction shall be made for that side of frame for doors, windows etc. on which width of reveal is less than that of the other side but no deduction shall be made on the other side. Where the width of reveals on the both the faces of wall are equal, deduction of 50% of area of opening of each face shall be made from area of finish.

(c) When only one face of wall is treated and the other is not treated, full deduction shall be made if the width of the reveal on treated side is less than that on untreated sides but if the width of the reveal is equal or more than that on untreated side neither deductions nor addition to be made for reveals, jambs, soffits, sills etc.

3.4. In case opening of area exceeding 3 sq.m. each, deduction shall be made for openings but jambs, soffits and sills shall be measured.

3.5. No deductions shall be made for attachments such as casings, conduits, pipes, electric wiring and the like.

3.6. Item includes removing nails, making good holes, cracks, patches with material similar in composition of distemper.

3.7. The rate includes cost of all materials, labours, scaffolding, protective measures etc. involved in all the operations described above. This shall also include conveyance, delivery, handling, unloading, storing work etc.

3.8. The rate shall be for a unit of one sq. metre.

18.45. Distemping (two coats) with oil bound washable distemper of approved brand and manufacture and of shade required on undecorated wall surfaces to give an even shade, over and including a priming coat with alkali resistance primer of approved brand and manufacture after thoroughly brushing the surface free from mortar droppings, and other foreign matter and also including preparing the surface even and sand-papered smooth.

1.0. Materials & workmanship :

1.1. The relevant specifications of item No.18.44 shall be followed except that the primer of alkali resistance primer of approved brand manufacture shall be used instead of distemper primer.

2.0. Mode of measurements & payment :

2.1. The Mode of measurements & payment shall be same as for item No.18.44 above.

2.2. The rate shall be for a unit of one sq. metre.

18.51. Finishing wall with water proofing cement paint on an undecorated wall surfaces (two coats) to give an approved brand and manufacture and of required shape even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials.

1.0. Materials :

1.1. The water shall conform to M-1. Cement water proofing shall conform to I.S. 5410-1969.

2.0. Workmanship :

2.1. Scaffolding : The relevant specifications of item No.18.11 shall be followed.

2.2. Preparation of surface : The relevant specifications of item No.18.11 shall be followed except that the word white wash colour wash shall be substituted with water proofing cement paint. The surface shall be thoroughly wetted with clean water before cement water proofing paint is applied.

2.3. Preparation of paint : Portland cement shall be prepared by adding paint powder to water and stirring to obtain a thick paste, which shall then be diluted to a brushable consistency. Generally, equal volumes of paint powder and water make a satisfactory paint. In all cases, the manufacturer's instructions shall be followed. The paint shall be mixed in such quantities as can be used up within an hour of mixing as otherwise the mixture will set and thicken, affecting flowing and finish. The lids of cement paint drums shall be kept tightly when not in use.

2.4. Application of Paint :

2.4.1. No painting shall be done when the paint is likely to be exposed to a temperature of below 7°C within 48 hours after application.

2.4.2. When weather conditions are such as to cause damage the work shall be carried out "in the shadow" as far as possible. This helps the proper hardening of the paint film by keeping the surface moist for a longer period.

2.4.3. To maintain the uniform mixture and to prevent segregation, the paint shall be stirred frequently in the bucket.

2.4.4. For undecorated surfaces, the surfaces shall be treated with minimum two coats of water proof cement paint. Not less than 24 hours shall be allowed between two coats. Next coat shall not be started until the preceding coat has become sufficiently hard to resist marking by the brush being used. In hot dry weather, the preceding coat shall be allowed between two coats. Next coat shall not be started until the preceding coat shall be slightly moistened before applying the subsequent coat.

2.4.5. The finished surface shall be even and uniform in shade, without patches, brush marks, paint drops etc.

2.4.6. The cement paint shall be applied with a brush with relatively short stiff hog or fibre bristles. The paint shall be brushed in uniform thickness and shall be free from excessive heavy brush marks. The lamps shall be well brushed out.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

2.4.7. Water proof cement paint shall be applied on surfaces already treated with white wash colour wash, distemper dry or oil bound varnishes, paint etc. It shall not be applied on gypsum, wood and metal surfaces.

2.5. Curing : Painted surfaces shall be sprinkled with water two or three times a day. This shall be done between coats and for atleast two days following the final coat. The curing shall be started as soon as the paint has hardened so as not to be damaged by the sprinkling of water say about 12 hours after the application.

2.6. Protection measures shall be taken as per item No.18.11 para 2.6.

3.0. Mode of measurements & payment :

3.1. The relevant specifications of item No.18.11 shall be followed.

3.2. The rate shall be for a unit of one sq.mt.

DETAILED SPECIFICATIONS OF ITEMS-PAINTINGS & POLISHING AS PER "SCHEDULE OF RATES"

19.7. Painting two coats (excluding priming coat) on new steel and other metal surfaces with enamel surfaces with enamel paint, brushing, interior to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.

1.0. Materials :The enamel paint shall conform to M –44 B.

2.0. Workmanship :

2.1. General :

2.1.1. The materials required for work of painting work shall be obtained directly from approved manufactures or approved dealer and brought to the site in maker's drums, kege etc. with seal unbroken.

2.1.2. All materials not in actual use shall be kept properly protected, lids of containers shall be kept closed and surface of paint in open or partially open containers covered with a thin layer of turpentine to prevent formation of skin. The materials which have become stale or flat due to improper and long storage shall not be used. The paint shall be stirred thoroughly in its container before pouring into small containers. While applying also the paint shall be continuously stirred in smaller container. No left over paint shall be put back into stock tins. When not in use, the containers shall be kept properly closed.

2.1.3. If for any seasons, thinning is necessary, the brand of thinner recommended by the manufacturer shall be used.

2.1.4. The surface to be painted shall be thoroughly cleaned and dusted. All rust, dirt and grease shall be thoroughly removed before painting is started. No painting on exterior or other exposed parts of the work shall be carried out in wet, damp or otherwise unfavourable weather and all the surfaces shall be thoroughly dry before painting work is started.

2.2. Application:

2.2.1. Brushing operations are to be adjusted to the spreading capacity advised by the manufacture of particular paint. The paint shall be applied evenly and smoothly by means of crossing and laying off. The crossing and laying off consists of covering the area over with

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

paint, brushing the surface hard for the first time over and then brushing alternately in opposite directions two or three times and then finally brushing lightly in direction at right angles to the same. In this process, no brush marks shall be after the laying off is finished. The full process of crossing and laying off will constitute one coat.

2.2.2. Each coat shall be allowed to dry completely and lightly rubbed with very fine grade of sand paper and loose particles brushed off before the next coat is applied. Each coat shall vary slightly in shade and shall be got approved from Engineer-in-charge before next coat is started.

2.2.3. Each coat except the last coat shall be lightly rubbed down with sand-paper of fine pumic stone and cleaned of dust before the next coat is applied. No hair marks from the brush or clogging of paint puddles in the corners of panels angles of mouldings etc. shall be left on the work.

2.2.4. Special care shall be taken while painting over bolts, nuts, rivets, overlaps etc. Approved best quality brushes shall be used.

3.0. Mode of measurements & payment :

3.1. The relevant specifications of item No.19.12 shall be followed for mode of measurements and payment. The rate is excluding priming coat.

3.2. The rate shall be for a unit of one sq, metre.

19.15. Extra over item No.19.7 and 19.11 for every subsequent coat of paint.

1.0. Materials & Workmanship :

1.1. The relevant specification of item No.19.7 shall be followed except that the work of painting shall be carried out for subsequent coat.

2.0. Mode of measurement & payment :

2.1. The relevant specifications of item No. 19.7 shall be followed except that the extra rate shall be paid for every subsequent coat of paints applied over and above the rate of item No.19.7 and 19.11.

2.2. The rate shall be for a unit of one sq. metre.

19.19. Painting two coats (excluding priming coat) on new steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.

1.0. Materials : Synthetic enamel paint shall conform to I.S. 1932-1964.

2.0 Workmanship:2.1. The relevant specifications of item No. 19.7 shall be followed except that the painting shall be carried out with synthetic enamel paint.

3.0. Mode of measurements & payment :

3.1. The relevant specifications of item No. 19.7. shall be followed.

3.2. The rate shall be for a unit of one sq. metre.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

19.50(C) Painting two coats (excluding priming coat) on external surfaces of rain water, soil waste and vent pipe and fittings with ready mixed bituminous paint brushing, black anticorrosive to give shade including cleaning off all dirt dust and other foreign matter :100 mm. dia.

1.0. Materials & Workmanship :

1.1. The relevant specifications of item No. 19.50 (B) shall be followed except that the pipes to be painted on is 100 mm. dia. metre.

2.0. Mode of measurements & payment :

2.1. The relevant specifications of item No.19.50(B) shall be followed. The rate is excluding the cost of priming coat but including cost of painting all fitting coming in line.

2.2. The rate shall be for a unit of one sq. metre.

19.59(B) Applying priming coat over new wood and based surfaces after and including preparing the surface by thoroughly cleaning of dirt grease, dust and other foreign matter, sand papering and knotting : Ready mixed paint, brushing wood primer pink.

1.0. Materials :

1.1. The ready mixed paint, brushing, wood primer pink shall conform to I.S. 3536-1966.

2.0. Workmanship :

2.1. Preparation of Surfaces :

2.1.1. All wood work shall be dry and free from any foreign matter incidental to building operations. Nails shall be punched well below the surface to provide a firm key for stopping. Mouldings shall be carefully smoothed with abrasive paper and projecting fibres shall be removed. Flat portion shall be smoothed off with abrasive paper used across the grain prior to painting and with the grain prior to staining or if the wood is to be left in its natural colour, wood work which is to be stained may be smoothed to scraping instead by glass papering if so required.

2.1.2. Any knots, resinous or streaks or bleish sap wood that are not large enough to justify cutting out shall be treated with two coats of pure shellac knotting applied thinly and extended about 25 mm. beyond the actual area requiring treatment.

2.2. Application of primer :

2.2.1. The relevant specifications of item No.19.12(A) shall be followed for application of primer.

3.0. Mode of measurements & payment :

3.1. The relevant specifications of item No.19.32 shall be followed except that work done on wood and wood based surfaces shall be paid under this item.

3.2. The rate shall be for a unit of one sq. metre.

19.59(D) Applying priming coat over new wood and wood based surfaces after and including preparing the surface by thoroughly cleaning of oil, dirt, grease, dust and other foreign matter, sand papering and knotting : Ready mixed paint brushing priming, for enamel.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

1.0. Materials :

1.1. The ready mixed paint for brushing priming for enamel wood shall conform to I.S. 106-1962.

2.0. Workmanship :

2.1. The relevant specifications of item No.19.59(B) shall be followed except that ready mixed paint brushing priming for enamel shall be used instead of ready mixed paint brushing wood primer pink.

3.0. Mode of measurements &payment :

3.1. The relevant specifications of item No.19.12 shall be followed.

3.2. The rate shall be for a unit of one sq. metre.

19.61(B) Extra over item 19.59(B) for every subsequent coat of priming coat. Ready mix paint brushing wood primer pink.

1.1 The relevant specifications of item No. 19.59 (B) shall be followed except that the painting work shall be carried out with ready mix paint, brushing wood primer pink for subsequent coat.

2.0. Mode of measurements &payment :

2.1. The relevant specifications of item No.19.59(B) shall be followed except that the extra rate shall be paid for every subsequent coat applied with Ready mix paint; brushing wood primer pink over and above the rate of item no.19.59 (B).

19.62 (D) Extra over item No. 19.59(D) for every subsequent coat of priming coat ready mixed paint brushing priming for enamel.

1.0. Materials &Workmanship :

1.1 The relevant specifications of item No. 19.59 (D) shall be followed except that the painting work shall be carried out with ready mix paint brushing priming for enamel.

2.0. Mode of measurements &payment :

2.1. The relevant specifications of item No.19.59(D) shall be followed except that the extra rate shall be paid for every subsequent coat of priming coat with ready mixed paint, brushing priming for enamel.

2.2. The rate shall be for a unit of one sq. metre.

19.71. Painting two coats (excluding priming coat) on new wood and wood based surfaces with enamel paint interior to give an even shade including cleaning the surface off all dirt, dust and other foreign matter sand papering and slopping.

1.0. Materials :

1.1. The enamel paint shall conform to I.S. 133-1975.

2.0. Workmanship :

2.1. The relevant specifications of item No.19.7 shall be followed for general and applications of paint, except that the enamel paint shall be used for painting on new wood/wood based surfaces.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

2.2. In painting doors and windows the putty, round the glass panes also be painted but care shall be taken to see that no paint, stain etc. are left on the glass. Top of shutters and surfaces in similar hidden locations shall not be left out in painting.

3.0. Mode of measurements & payment :

3.1. The relevant specifications of item No.19.12 shall be followed, for mode of measurements and payments. The rate excludes cost of priming coat.

3.2. The rate shall be for a unit of one sq. metre.

DETAILED SPECIFICATIONS FOR DEMOLITION& DISMANTLING AS PER "SCHEDULE OF RATES"

20.1. (I) Demolition and disposal of unserviceable materials with all leads and lifts : Lime Concrete.

1.0. Workmanship :

1.1. The demolition shall consist of demolition of one or more parts of the building as specified or shown in the drawings. Demolition implies taking up or down or breaking up. This shall consist of demolishing whole or part of work including all relevant item as specified or shown in the drawings.

1.2. The demolition shall always be planned before hand and shall be done in reverse order of the one in which the structure was constructed. This scheme shall be got approved from the Engineer-in-charge before starting the work. This however will not absolve the contractor from the responsibility of proper and safe demolition.

1.3. Necessary dropping, shoring and under pinning shall be provided for the safety of the adjoining work or property, which is to be left intact, before dismantling and demolishing is taken up and the work shall be carried out in such a way that no damages is caused to the adjoining property.

1.4. Wherever required, temporary enclosures or partitions shall also be provided. Necessary precautions shall be taken to keep the dust nuisance down as and where necessary.

1.5. Dismantling shall be commenced in a systematic manner. All materials which are likely to be damaged by dropping from a height or demolishing, masonry etc. shall be carefully dismantled first. The dismantled articles shall be properly stacked as directed.

1.6. All materials obtained from demolition shall be the property of Government unless otherwise specified and shall be kept in safe custody until handed over to the Engineer-in-charge.

1.7. Any serviceable material, obtained during dismantling or demolition shall be separated out and stacked properly as directed, with all lead and loft. All unserviceable materials, rubbish etc. shall be stacked as directed by the Engineer-in-charge.

1.8. On completion of work, the site shall be cleared of all debris rubbish and cleaned as directed.

2.0. Mode of measurements & payment :

2.1. Measurements of all work except hidden work shall be taken before demolition or no allowance for increase in bulk shall be allowed. The demolition of lime concrete shall be measured under this item. Specification for deduction for voids, openings etc. shall be on same basis as that employed for construction of work.

2.2. All work shall be measured in decimal system as fixed in its place subject to the following limits, unless otherwise stated hereinafter :

(a) Dimensions shall be measured to the nearest 0.01 mt.

(b) Area shall be worked out to the nearest 0.01 sq. mt

(c) Cubical connection shall be worked out to the nearest 0.01 Cu. M.

2.3. The rate shall include cost of all labour involved and tools used in demolishing and dismantling including scaffolding. The rate shall also include the charges for separating out and stacking the serviceable materials properly and disposing the unserviceable materials with all lead and lift. The rate also includes for temporary storing for the safety of the portion not required to be pulled down or of adjoining properly and providing temporary enclosures or partitions where considered necessary.

2.4. The rate shall be for a unit of one cubic metre.

20.3. Demolition including stacking of serviceable materials and disposal of unserviceable materials with all leads and lifts : R.C.C. work.

1.0. Workmanship :

1.1. The relevant specifications of item No.20.1(I) shall be followed except that demolition of R.C.C. work is to be done.

2.0. Mode of measurements & payment :

2.1. The relevant specification of item No.20.1 shall be followed except that the demolition of reinforced concrete structure. The unserviceable materials shall be disposed of at all leads and lifts. The rate excludes scraping straightening of reinforcement but includes cutting of reinforcement.

2.2. The rate shall be for a unit of one cubic metre.

20.23. Dismantling tiled or stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lifts.

1.0. Workmanship :

1.1. The relevant specification of item No.20.1(I) shall be followed except that the dismantling of tiled or stone floors laid on mortar shall be done. Dismantling implies carefully, taking up or down or these are fixed by nail, screws, bolts etc. these shall be taken out with proper tools.

2.0. Mode of measurements & payment :

2.1. The supporting materials such as joints, beams if any etc. shall be measured separately, the relevant specification of item No.20.1 (I) shall be followed. The rate shall include stacking the unserviceable materials as directed will lead and lift.

2.2. The rate shall be for a unit of one sq. metre.

20.49. (I) Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats Architraves, hold fasts and other attachments etc. complete and stacking them within all lead & lifts, Not exceeding 3 sq. mt. in area.

1.0. Workmanship :

1.1. The relevant specification of item No.20.1(I) shall be followed that the doors, windows, ventilators etc. (wood or steel) shutters including chowkhats Architraves, hold fasts and other attachments etc. are to be dismantled.

2.0. Mode of measurements & payment :

2.1. The relevant specification of item No.20.1(I) shall be followed.

2.2. The doors, windows, ventilators etc. not exceeding 3 sq. mt. in area (each) including shutters and chowkhats Architraves, hold fasts and other attachments to grames etc. will be dismantled and measured under this item.

2.3. The rate includes stacking serviceable materials as and where directed with all leads and lifts.

2.4. The rate shall be for a unit of one number.

20.49. (II) Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats Architraves, hold fasts and other attachments etc. complete and stacking them within all leads & lifts exceeding 3 sq. mt. in area.

**DETAILED SPECIFICATIONS FOR REPAIRS TO BUILDINGS
AS PER "SCHEDULE OF RATES"**

21.24. Cutting out cracks of roof terrace to V-section cleaning out, and fillings solidly with a hot mixtures of bitumen and clean dry sand (1:1 by weight).

1.0. Materials :(i) Bitumen shall be 85/25 penetration. (20 sand shall conform to M-6.)

2.0. Workmanship :

2.1. The relevant specification of item No.20.23 shall be followed for opening cracks and cleaning.

2.2. The cracks shall be absolutely dried and cleaned and filled solidly with a hot mixtures of 85/25 penetrating and sand in ratio of 1:1 by weight. The filler shall be well filled in to cracks with the edges of trowel and left flush with surface of roof. Repaired cracks shall cause no ridges across the direction of the slope of roof.

3.0. Mode of measurements & payment:

3.1. The relevant specification of item No.20.23 shall be followed.

3.2. The rate shall be for a unit of one running metre.

Note: The bidders shall refer to the BOQ for the detailed specifications of other items under the scope of civil, architectural or finishing works.

B. Electrical Works:

Standards to be followed:

All work shall be carried out strictly as per following / relevant IS Codes:

1. IS: 732 - 1989 Code of practice for electrical wiring installations.
2. IS: 11353- 1985 Guide for uniform system of marking and identification of conductors and apparatus terminals.
3. IS: 3646(Part-1)-1966 Code of practice for interior illumination: Principles for good lighting and aspects of design.
4. IS: 3646(Part-2)-1966 Code of practice for interior illumination: Schedule of illumination and glare index.
5. IS: 3043 - 1987 Code of practice for earthing.
6. IS: 5216(Part-1)-1982 Guide for safety procedures and practices in electrical work: General.
7. IS: 3854 - 1988 Switches for domestic and similar purposes.
8. IEC 62040-2:2005, Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements.
9. IEC 62040-3:1999, Uninterruptible power systems (UPS) – Part 3: Method of specifying the performance and test requirements.

C. IT Works:

1. Monitoring Area

S.NO.	Features	Description	Compliance (Yes/No)
1.1	Video wall Display		
1	Screen Size	49" / 50"	
2	Aspect Ratio	16:09	
3	Brightness	≥ 600 nits	
4	Bezel Width	Bezel to Bezel : ≤ 2.0 mm (T/B/L/R even bezel)	
5	Surface Treatment	Hard coating (3 H), Antiglare treatment of the front polarizer (Haze 10 %)	
6	Panel Technology	IPS or superior	
7	Native Resolution	1920 x 1080 (FHD)	
8	Viewing Angle (HxV)	178 x 178	
9	Operation Temperature	0°C to 40°C	
10	Orientation	Portrait & Landscape	
11	Connectivity		
12	(Input)	HDMI, DVI, RGB, USB	
13	Output	DP	
14	Ext. Control	RS232C (In/Out), RJ45, IR Receiver, USB	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

16	SPECIAL FEATURES	Temperature Sensor, Tile Mode (Up to 15x15), Natural Mode@Tile Mode, , File Play with USB	
17	Operating hour	24x7x365	
18	Certifications		
19	Safety	UL / cUL / CB / TUV / KC	
20	EMC	FCC Class "A" / CE / KCC	
21	ErP / Energy Star	(Energy Star 7.0)	
B	Controller Specification		
1	Display & Controller	Display & Controller should be from the same manufacturer / Compatible	
2	Reputed Company	The OEM should be an established multinational in the field of video walls and should have installations around the world	
3	Display controller	Controller to control Minimum 18 displays with 18 outputs , 8 Universal Inputs along with necessary software's	
	Compatibility	Controller should be compatible with CISCO CDP platform and Bidder Should share require API/SDK for any 3 rd party Integration in future	
4	Chassis	19" industrial Rack mount Lockable front door to protect drives	
5	Operating System Platform	Window 7- 64 bit	
6	Processor options	Xeon/ i3/i5/ i7	
7	RAM	Std. 4 GB DDR3, higher on request	
8	HDD	Support up to minimum 2 HDD Std.: 2x1 TB (RAID) , can be upgraded on request	
9	Networking	Dual-port Gigabit Ethernet Controller inbuilt Supports Add on copper/ optical fibre adapters	
10	Input / Output supported	Serial ATA LAN * 2x RJ45 LAN ports USB 2.0 port	
11	RAID	RAID 0, 1, 5, 10 support	
12	Power Supply	(1+1) Redundant hot	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		swappable	
13	Cooling	Forced cooling	
14	Indicators	LED's for HDD activity and Power status	
15	Switches	Power On/Off and System Reset	
16	Monitoring options	CPU, FAN, Temperature	
17	Accessories	DVD +RW ,Keyboard and mouse	
18	Voltage	100-240V @ 50/60 Hz	
19	Redundancy support	Power Supply	
		HDD	
		Cooling FAN	
		LAN ports	
20	Scalability	Display multiple source windows in any size, anywhere on the wall	
21	Control functions	Brightness / contrast / saturation/ Hue/ Filtering/ Crop / rotate	
22	Outputs	18 DVI	
23	Resolution support	DVI: 1920x1200 RGB: 2048x1536	
24	Universal Inputs	8 Universal inputs	
25	Accessories	DVD-R,DVD+RW,, Keyboard, mouse	
26	Power Supply	(1 + 1) Redundant AC-DC high-efficiency power supply	
		* AC Voltage 100 - 240V, 50-60Hz	
27	Operating Conditions	* Operating Temperature: 10° to 40°C (50° to 95°F)	
		* Non-operating Temperature: -40° to 70°C (-40° to 158°F)	
		* Humidity: 10 – 90% non-condensing	
C	Video Wall management S/W		
1	Scaling and display	Software tp enable the user to display multiple sources in any size and anywhere on the display wall.	
2	Auto Source Detection	Software should support for auto source detection	
3	Layout Management	Should support for Video, RGB, DVI, ,Internet Explorer, Desktop Application and Remote Desktop Monitoring Layouts	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

4	Scenarios	Software should able to Save and Load desktop layouts from Local or remote machines	
5	Layout Scheduler	All the Layouts can be scheduled as per user convenience	
		Software should support auto launch of Layouts according to specified time or event by user	
6	Layout Preview	Software should support layout preview option	
7	Launch Application	Software should be able to support	
8	Integration with 3rd party devices	System should offer interface to enable control from 3rd party devices like any BMS Platform CDP Creston , AMX etc.	
9	Live Preview	Software should able to provide live preview of video wall	
10	Work space allocation	System should provide functionality to the administrator to define and allocate work space for a particular operator or a group of operators when working on a Video wall	
11	Authentication	Software should offer 4 levels of Authentication (User accounts, Permissions for functionality & Roles etc.).	
12	Offline Layouts	It should be possible to create offline layouts	
13	User friendly	Software should be user friendly	
14	Ticker	Ticker message can be positioned anywhere on the display wall. Inside the ticker window, font size, colour and background can be set	
15	Ticker Type	Software should able to prepare three kinds of tickers: text ticker, RSS ticker and time ticker	
16	SNTP	System should support SNTP function	
17	Protection	System should have Hardware License key to protect the software from unauthorized access.	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

2. Server Rack

S.NO.	Feature	Description	Compliance (Y/N)
2.1	Smart Row for the server with other Accessories		
1	Rack	No. of Racks: Min. 7 racks (as per layout diagram)	
		(4 x 42U racks of 600MM to accommodate Servers, 2 x 42U rack of 700MM approx. for Precision AC, 1 x 42U rack of 700 MM approx. for Electrical Panel)	
		Usable U space (4 x 42U Racks for IT equipment): 165	
		Blanking Panel: 20%	
		Intelligent Rack PDU (IP based) with PDU Level Metering, 0U, 32A, 230V, 18 C13 and 6 C19, IEC309 - 2 per Rack, total 8	
		Overhead cable tray	
		Dimensions (H x D x W) MM: 2500 x 1800 x 4500	
		Modularity/ Expandability: Provision to add an extra rack in future	
3	Cooling	Precision Air conditioner with variable capacity cooling, heater, humidifier, and digital scroll compressor.	
		Cooling Capacity = 2 x 35KW (N+N)	
		Containment: Cold Contained Front Aisle & Rear Contained Hot Aisle (front flow back return), insulation and remote management	
5	Electrical Panel	Electrical system with essential MCB/MCCB, for 2 power sources, with complete redundancy (separate/ compartmentalized)	
6	Security system	Access Control, biometric, integrated within rack	
7	Remote Monitoring/ Safety System	Monitoring Device	
		Fire Detection & Suppression; NOVEC1230 Based, as per NFPA guidelines	
		Temperature Monitoring	
		Humidity Monitoring	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		Cooling & UPS system should also be monitored remotely	
		Water Leak Sensor	
		Rodent repellent system	
		Beacon	
		Event Alerts (buzzer + flash)	
		RS485 Port	
		SNMP	
		Email and SMS Notification (excluding SIM card)	
8	LCD Console Tray with integrated KVM Switch	1U Slide-In	
		Min. 17-inch LCD console, with Keyboard and Trackball mouse, Rail Mounting Kit	
		USB Keyboard/ Mouse connector	
		VGA Video connector	
		Integrated 16-port KVM switch, IP-based with remote access	
		Cables for KVM connectivity with IT Equipment, as per required (Min. 3 Mtr.)	
9	Certification	TIA 942, NFPA, Tier-3	
10	O & M	Comprehensive Annual operation & Maintenance Contract for SMART ROW SERVER RACK and accessories for 5 years from the date of FAT.	
		Single OEM for all critical components, i.e. Cooling system, UPS system, Monitoring system.	
2.2	Network Rack		
1	Rack	Supply, installation, testing & commissioning of Network Rack 800W X 2000(42U) H X 1000D, with all the necessary accessories like fan, PDU, Mounting Screw, cable manager.	

3. Access control System for Doors

S.NO.	Feature	Description	Compliance (Y/N)
3.1	Access control Device		
1	Controller	Access Door Controller up to 4 WIEGAND reader support Latest integrated 32-bit, 30 MHz Micro-controller based system architecture; On board Real Time Clock that will adjust itself to leap year computations automatically	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		Access Door Controller shall have 8 Relay outputs; 8 Analog Inputs; on-board LCD display 16 Characters 16-characters liquid crystal display (LCD), shall display network parameters and actual status like: a. IP address of the controller b. MAC address of the controller c. DHCP on/off d. Status of all the inputs connected to it e. Status of all the outputs connected to it f. Online and Offline status of the controller g. Firmware version; Access Door Controller shall include a standard 2GB Compact flash (CF) memory card for storing cardholder data and access events. Memory shall store database that has a capacity with a minimum of 80,000 cardholders and Event buffer size: maximum of 4,00,000 events with date and time stamp. Complete with Housing & power Supply Module with Battery Charger.	
	Biometric Reader		
	Min nos. of Users	500	
	Finger print Template	10 per User	
		Open Standard Template (ISO based) Template should be compatible with aadhar database.	
	Support Type	Fingerprint/Card/Pin	
	Card Type	Proximity Card	
	Interface:	USB, TCIP, RS-485, RS232	
	Power	12V DC	
	Scanner type :	Optical	
	Sensor resolution	500dpi	
	Verification Time	< 1 sec; d. FRR = 0.5%; e. FRR = 0.1%	
	Event Buffer	Min 20000	
	Magnetic Door Lock	Single Leaf 600lbs/280kg EM Lock with LED	
	Exit Switch	Stainless Steel Exit Switch (push Type)	

3.2		Access controller Management Software	
1	Access Software	Control	<p>The Access Control System Software shall be a PC-based system based on Windows Operating Systems. Ability to store up to 2 templates on the card The Access Control System shall be of modular design providing the flexibility to allow the user to add or remove any components and/or controlled functions or in the event when operating requirements change or as system expands. The Access Control System shall support up to four (4) different Wiegand card formats simultaneously. The number of each format supported shall be unlimited. The Access Control System shall monitor and record in a logbook all movements and activities at each control point. It shall be a standard feature provided in the Access Control System management software for taking photos, scanning or importing cardholder images into the cardholder database. Such that stored cardholder's image can be displayed automatically on the Access Control System. The events log files shall include an advanced filter functions such that archive can be kept small and precise. If required, only desired information shall be archived. The system shall contain a map viewer. This map viewer shall provide a graphical presentation of the premises or object by means of floor plans, object pictures or any desired graphical representation.</p>

4. 2 MP Indoor IP Based Dome Camera Specification

S.NO.	Feature	Description	Compliance (Y/N)
4.1	IP Based Dome Camera		
1	Type	Indoor, Dome, Ceiling Mount	
2	Communication Interface	1xRJ45, POE,	
3	Sensor Type	1/2.7 or better CMOS 2MP	
4	Max Image Resolution	1920x10180	
5	IR Range	15mtr.	
6	Sensitivity LUX	0.5 or better	
7	White balance	Yes	
8	Compliant	ONVIF	
9	Stream	Min two	
10	WDR	≥72db	
11	Lens Type	6 mm: horizontal FOV: 54°, vertical FOV: 30°, diagonal FOV: 62°	
12	Mounting	The mounting bracket of camera should be same make as of camera OEM	
13	Compatibility	Camera should be compatible with Cisco VMS application	

b. Video Conference Room

S.NO.	Features	Description	Compliance (Yes/No)
1	Motorised Projector Screen		
	Projector Screen	Supply and Installation of Electric Motorised Projection Screen with Sturdy structure made of High Gain Projection Fabric with RF cordless Remote to operate the screen with a touch of a button, in 6' x 8' Sizes with lubricated tubular motor for smooth and silent operation.	
2	Ceiling Mount Projector Stand kit		
	Ceiling Mount Projector Stand kit	Supply and Installation of Ceiling Mount Projector Stand Kit 3' to 6' of Size as required.	
3	Cable Set		
	Cables	Supply of 2 Nos of 10 Meter Power Cable + 2 Nos of 10 Meter VGA	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		Cable + 2 Nos of 10 Meter HDMI 1.3 Cable	
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5. Personnel

The Contractor shall provide details of the following Schedule of Key Personnel which summarizes their availability.

Type of Professional	Availability in project
Project In-charge	Project implementation and commissioning Phase
Hardware Technician	O&M Period

D. Other Services:

Water Leak Detection System			
Brand Name:			
Model No.:		Part No. (If Any):	
Sr. No	Feature	Description	Compliance (Y/N)
1	General	The complete system shall include electronic alarm panel, sensing cable, 4x20 alphanumeric display, and auxiliary equipment, as indicated on the design drawings. The system shall simultaneously detect the presence of water at any point along the cable's length and switch the module's leak alarm relays.	
	Alarm Panel	The alarm panel shall be capable of monitoring up to (30 meters) of sensing cable.	
		The alarm Panel shall have LEDs indicating "power" (green), "alarm" (red), and "continuity" (yellow). The system shall sound an audible alarm upon sensing a leak. The unit can then continue to monitor and will re-alarm if there are any major changes. Once the alarm condition has been cleared, the panel is reset with a single keystroke. The Panel shall have 4x20 alpha numeric display with adjustable contrast.	
		Basic Features of the alarm panel	
		In addition to detecting leaks, the system shall warn of fault conditions and indicates when service is required.	
		An event history log allows leaks (and other events) to be tracked.	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>Both the events history log and any user settings are held in non-volatile memory. Event log shall store 50 date and time stamped alarm.</p> <p>The alarm module will be powered by 230 VAC. The panel shall have a pair of contacts open on an alarm, and a pair of contacts close on an alarm. These contacts shall be used to actuate other alarms and shall be capable of switching 10 amps at 250 VAC.</p> <p>In addition, the panel shall be provided with RS-485 series port for connection to building management system & shall have slave Modbus RTU protocol</p> <p>The module enclosure shall be NEMA 1, constructed of 18-gauge steel with Siemens gray colour Powder Coated. The enclosure shall be capable of either semi flush or surface mounting.</p>	
Sensing Cable	<p>The water sensing cable shall detect the presence of water and other conductive fluids. The sensing technology shall be very low current AC signal and not DC signal to avoid corrosion when subject to wetness for long period.</p> <p>The sensing cable shall be of such construction by using Non-conductive polymers in the leak detection cable's construction. The Sensing Cable shall be an abrasion resistant polymer core to increase the strength of the cable. Pressure on the sensing cable shall not create a false alarm.</p>	
Accessories	A Complete system accessories (leader cable, end terminations, etc.) shall be provided by the system manufacturer.	
Installation	All conduiting / wiring /Trays /channels /trenches /pipes etc. for completion of Job	
Warranty	3 year OEM Warranty	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

Rodent Repellent System			
Brand Name:			
Model No.:		Part No. (If Any):	
Sr. No	Feature	Description	Compliance (Y/N)
1	Controll er/Mast er Consol e	The system proposed is to protect all the equipment's, areas with relevant type of high frequency sound producing device called satellites or transducers. Once powered up these transducers produce very high frequency variable sound waves (above 20 KHz) continuously which irritate the rodents and are forced to evacuate the place. The system shall cover minimum of 2000 sq.ft. area per controller & shall be able to connect minimum 12 transducers per controller. The transducers shall cover minimum 250 sq.ft. of area. The devices can be tested periodically by means of a test switch provided on the Main console. Single Driver for all transducers. 5 Wave Speeds, 4 Wave Densities and 4 Frequency Bands of Operation Transducer Sound Output Verification and Analysis Networkable on RS-485 with support for Hardwired Third Party BMS Integration via Modbus & potential free NO-NC Contacts Software Integration; Seamless Integration with CRMS Software for system health monitoring and reporting in pdf format. with complete fitting and accessories.	
	Transd ucers /Satellit e	Transducers /Satellite shall be circular ceiling mounted low profile units that produce high decibel sound waves at very high frequency not less than 20 KHz. Sound Output : 80 db to 110 db, These satellites shall cover an area not less than 400 Sq.ft for Room void application; Audible Testing Of Transducers; Number of Wave Speed Options: 5; Number of Wave Density Options: 4; Number of Frequency Bands: 4	
		Visual Representation of Adherence to Safety Standards for continuous exposure to one third octave band airborne ultrasound frequencies as per IRPA Guidelines (International Radiation Protection Association) Geneva. Transducer Sound Output Verification and Analysis; USB Port for Real Time Reporting of Controller Health Status	
	Warran ty	1 year OEM Warranty	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

Addressable Fire Detection System			
Brand Name:			
Model No.:		Part No. (If Any):	
Sr. No.	Feature	Description	Compliance (Y/N)
1	Film	Fire Alarm Control Panel, 4 loop addressable, expandable upto 32 loops. Controller shall be 5.7 inch color touch screen display with stylus(320*240 pixels), inbuilt networking port (both RS485 & Ethernet),Serial port for printer,two supervisory inputs,two position key switch and USB port for programming. The Panel shall handle 4096 detection points, 10,000 history events, menu driven user interface with smart search. The events shall be displayed in different colors- red for alarm events & yellow for trouble etc. for easy identification. The Panel shall be VDS/EN 54 approved.to direct sunlight) to 15yrs (indoors) must be endorsed by OEM	
	Aspirating Smoke Detector	Aspirating smoke detector, Highly sensitive smoke aspiration system for monitoring of server rooms and equipment for earliest possible fire detection with max of 24 aspiration openings and a max pipe length of 180 mtr. complete (CPVC conduit, Pipe, etc) complete as required. - Three status displays on housing front panel for "operation", "alarm" and "malfunction". - Adjustable sensitivity of up to 0.05%/m light obscuration. - Different sensitive detection modules possible. - Settable in day and night operation - Innovative air flow sensor technology-false alarm suppression. - Monitoring of pipe for breakage and obstruction.- Air stream monitoring with air pressure-dependent equalization. - To be integrated in Detector Loop- Providing Pin Point Location of Each Hole.	
	Low Profile Detector	Microprocessor Based Addressable low profile detector for smoke, optical component, for flush fitting in steel-reinforced concrete ceiling or suspended ceilings. having a detection principle of two independent scattering light sensors with sensing volumes directly beneath the detector with features of drift compensation , contamination detection by means of a third optical system, protection against insects by means of a dual evaluation system , protection against external light in accordance with EN54-7 , chamber integrity monitoring, optical fault display , self monitoring of sensors, programmable for timed automatic sensitivity selections with Junction Box and other accessories as required. The detector shall be EN-54 Approved.	
	Multi-criteria Detector	Intelligent addressable Multi-criteria detector with two integrated light-scattering smoke sensors using 2 LEDs - blue & infrared along with a heat sensor, CO Sensor including mounting base. (Detector should comply to Test Fire 1). Detector should have 2 inbuilt isolators as per NFPA 72 style 7 wiring requirements and have an option	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		of both soft & hard addressing. Detector should monitor Electromagnetic interference and report to the panel - current and average values. EMC safety for detector shall be 50 V/m. Shall be EN54/ VDs/ certification.	
	Sounder	Standalone Loop Powered Addressable sounder with inbuilt isolators & with 32 different tone variants selection options & adjustable sound pressure by 5 levels, the sound pressure 101.3dB , it should be programmed from the panel. Shall be EN54/VDs/UL Certification. In case of external powered sounder vender to quote for power cable @10 Mtr./point	
	Control Relay	Addressable Control Relay Module with inbuilt isolators as per NFPA 72 style 7 is wiring requirements & with flexible network structures with a maximum switching current of 1A @ 30V DC. Shall be EN54/ Vds Certification/UL	
	Module	Addressable Module with one input & one output contacts, with inbuilt isolators & with 2 monitoring features, monitoring of a line with EOL resistor, Potential free contact monitoring. Shall be EN54 / Vds/UL Certification.	
	Break Glass/ Flap Unit	Addressable Manual Break Glass/ flap Unit (Double action) with inbuilt isolator or isolator module as per the NFPA Style 7 wiring with flexible network structures & necessary fixing arrangements with key complete as required shall be UL/VDS (following EN54 Standard Approval).	
	Warranty	1 year OEM Warranty	
Fire Suppression System			
Brand Name:			
Model No.:		Part No. (If Any):	
S. No	Feature	Description	Compliance (Y/N)
1	General	<p>The bidder shall supply, install, test and put in operation NOVEC 1230 (Fluro Ketone – FK-5-1-12) based fire suppression system. The fire suppression system shall include and not be limited to gas release control panel, UL listed and PESO approved seamless cylinders, discharge valve (with solenoid and pneumatic actuator) as the case may be, discharge pipe, check valve and all other accessories required to make a complete operation system meeting applicable requirements of NFPA 2001 (2012 edition) standards and installed in compliance with all applicable requirements of the local codes and standards.</p> <p>The system design should be based on the specifications contained herein, NFPA 2001 and in accordance with the requirements specified in the design manual of the agent. The bidder, shall confirm compliance to the above along with their bid.</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		<p>The system shall be properly filled and supplied by a UL listed OEM (Original Equipment Manufacturer) with UL listed filling plant.</p> <p>Generally the key components* of the system shall be UL listed. The NOVEC 1230 gas shall:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Comply with NFPA 2001 (2012 edition) standard <input type="checkbox"/> Have the approval from US EPA (Environmental Protection Agency) for use as a total flooding fire extinguishing for the protection of occupied space <input type="checkbox"/> Underwriters' Laboratories Inc. (UL, USA) component listing for the NOVEC 1230 gaseous agent. <input type="checkbox"/> Must have zero ozone depletion potential (ODP) <input type="checkbox"/> Have a minimal life span in atmosphere, with atmospheric life time of less than 5 days <p>commercially available</p> <p>*Key components are valves and its accessories, actuators, flexible discharge and connection hoses, check valves, pressure switch, and nozzles</p>	
	<p>Design Condition</p>	<p>The Novec 1230 agent is stored in seamless steel cylinders and dry nitrogen is added to provide additional energy to give the required rapid discharge. At the normal operating pressure of 25 bar at 21o C, the agent is a liquid in the container.</p> <p>The designer shall consider simultaneous total flooding of all voids within the protected volume. The system shall be designed in accordance with the OEM's Design Manual.</p> <p>In order to extinguish a fire using clean agent, the concentration of agent delivered to each void shall be above the minimum design concentration. The following shall be considered while designing the system.</p> <p>The minimum design concentration shall be 4.7%. Class C Design concentration.</p> <p>If the protected volume has a floor and / or ceiling void the spaces shall be included in the protected volume, employing a minimum design concentration not below that of the main room compartment.</p> <p>The discharge nozzles shall be located within the protected volume in compliance to limitations and with regard to spacing, floor and ceiling coverage, etc. The nozzles shall be positioned such that they would cover the entire area up to the extreme corners of the area under protection and the design concentration will be established in all parts of the protected volumes.</p> <p>The final numbers of discharge nozzles shall be according to the OEM's product manual.</p> <p>The average pressure at each nozzle shall not be less than 4.00 Bar.</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>The gas flow calculations shall be carried out on special software given by the OEM. The software should support usage of seamless cylinders which have a different design compared to the standard containers used worldwide. The system acceptance report shall show the resulting concentration in each independent void to be above 4.7% and the average pressure at each nozzle to be not less than 4.00 Bar.</p> <p>A fill density between 0.56 Kg/Lt to 0.92 Kg/Lt or as recommended by the manufacturer should be considered for the agent to be discharged within the specified time not exceeding 10 seconds and not less than 5 seconds.</p> <p>The design concentration shall follow at minimum NFPA 2001 for under floor, room and ceiling space. Unless otherwise approved, room temperature for air-conditioned space shall be taken around 20°C. For non-air conditioned space, the temperature shall be taken around ambient temperature. The system shall be designed with minimum design concentration of 4.7 % as applicable to Class A & C fire.</p> <p>The OEM should carry out the piping Isometric design and provide the hydraulic flow calculation results generated by using their UL listed design software.</p> <p>The system shall be so designed that a fire condition in any one protected area shall actuate automatically the total flooding of clean agent in that area independently. The entire system shall incorporate inter-alia detection, audible and visual alarms, actuation and extinguishing.</p>	
	<p>All components offered by the OEM including the cylinders shall be UL listed. The filling of the system shall take place in a UL listed filling plant owned by the OEM supplier.</p> <p>Cylinders:</p> <p>Each cylinder shall be seamless steel type manufactured from billets and tested in accordance with IS 7285 / BS 5045 standard and approved by PESO. The cylinders shall be UL listed for filling with Novec 1230 systems.</p> <p>The cylinder/valve assembly shall have suitable metallic protection for the valve enabling transportation of the filled cylinders safely.</p> <p>The cylinders shall be super-pressurized with dry Nitrogen to 25 bar. The cylinder shall be capable of withstanding any temperature between -30 Deg C and 70 Deg C.</p> <p>All cylinders shall be distinctly and permanently marked with the quantity of agent contained, the empty cylinder weight, the pressurization pressure and the zones they are protecting.</p> <p>Cylinder Valve:</p> <p>The UL listed valve shall be mounted directly on the cylinder and should NOT have any adaptor provision between the cylinder and Valve as per requirements of PESO. Cylinders with Adaptor between Valve shall be rejected as it is a violation of the PESO norms.</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>Each cylinder valve shall have a provision for fixing a UL listed supervisory pressure switch and a safety burst disc to protect the cylinder from over pressure. The UL listed cylinder valve shall have a disabling plug to prevent accidental discharge of the valve during transportation and installation.</p> <p>Each valve is to be fitted with a pressure gauge for monitoring pressure in the cylinder.</p> <p>The master cylinder valve is to be released electrically which is performed by means of a solenoid valve arrangement. Pilot cylinder actuation and pyrotechnic devices shall not be accepted.</p> <p>Cylinder Valve Actuators:</p> <p>In a single cylinder system the cylinder shall have a UL listed solenoid operated actuator and manual actuator as a single component. Multi cylinder systems shall have the same fitted on to the master cylinder and pressure operated actuators fitted on each slave cylinder. All actuators shall be UL listed and OEM make and locally manufactured actuators shall not be used.</p> <p>Hoses:</p> <p>Each cylinder valve shall be provided with a plug in type UL listed flexible rubber discharge hose of minimum 50mm size with a proof pressure of 69 Bar. Each hose shall be permanently marked with the test pressure and OEM's part number. Multi cylinder systems shall have an interconnect hose for each cylinder. All hoses shall be UL listed and OEM make. Locally manufactured hoses shall not be used.</p> <p>Manifold Check Valve:</p> <p>The manifold shall be fabricated from ASTM A106 Schedule 40 seamless pipe and shall be independently threaded to the UL listed check valve. The Manifold shall preferably be fabricated at site based on the shop drawing from the OEM.</p> <p>Other Accessories:</p> <p>Electric Control Head, Pressure operated control head, Master Cylinder Adapter Kit, Flexible discharge hose, discharge Nozzles, and other required accessories shall be approved or listed for use with the clean agent.</p> <p>All the gaskets, O-ring, sealant and other components shall be constructed of materials compatible with the clean agent.</p> <p>The system should be engineered using hardware & accessories approved by the Engineering System Distributors of clean agent as mentioned in the list of approved makes. The Vendor shall submit the detailed data sheets of each component with the required part Nos and also the common system data sheet containing these parts with part Nos.</p> <p>FIRST FILL, RE-FILLING AND MAINTENANCE:</p> <p>The filling plant shall be UL listed and PESO approved based out of India and should be from the OEM only.</p>	
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Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>In case of any leakage or accidental discharge of the agent, the refilling shall take place from the UL listed filling plant only from a valid PESO approved OEM filling station in India itself. The contractor should indicate the source of re-filling and the time that will be taken for re-filling and replacement.</p>	
	<p>Piping & Fittings:</p>	
	<p>All piping shall be ASTM A-106, Grade-B, Schedule 40 seamless pipes and all fitting shall be of ASTM A-105 standard. Distribution piping and fittings shall be installed in accordance with the manufacturer's requirements, NFPA 2001, and approved piping standards and guidelines.</p>	
	<p>All distribution piping shall be installed by qualified individuals using accepted practices and quality procedures. All piping shall be adequately supported and anchored at all directional changes and nozzle locations.</p>	
	<p>All Piping shall be reamed, blown clear and swabbed with suitable solvents to remove burrs, mill varnish and cutting oils before assembly.</p>	
	<p>All pipe threads shall be sealed with Teflon tape pipe sealant applied to the male thread only.</p>	
	<p>Discharge Nozzles:</p>	
	<p>Engineered discharge nozzles shall be provided within the manufacturer's guidelines to distribute the clean agent throughout the protected spaces. Nozzles shall control the flow of clean agent to ensure high velocity, proper mixing in the surrounding air and uniform distribution of the agent throughout the enclosure.</p>	
	<p>The number of nozzles and their positions must be chosen so that the design concentration is maintained everywhere in the enclosure. Nozzle shall be located where they can be adequately supported on walls, ceiling or structural members. Software generated calculation supporting the nozzle design shall be submitted by the successful bidder.</p>	
	<p>Documentation:</p>	
	<p>The system engineering company should prepare & submit along with the bid documents, the piping Isometric drawing and support the same with a UL listed hydraulic flow calculation generated using the agent's design software. The calculations shall validate the fill density assumed by the bidder.</p>	
	<p>The bidder shall submit copies of datasheets of hardware used in the system. The bidder shall also submit copy of PESO approval letter for the cylinder proposed to be used. The bidder shall also submit calculations to evidence the qty of agent considered for the system.</p>	
	<p>The successful vendor must submit, along with the supply invoice, a certificate of authenticity for the agent, duly checked and vetted by the OEM.</p>	
	<p>The system engineering company should provide, as part of the handing over, the As-built drawings and operation & maintenance manual.</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>Fire Detection & Gas Release Panel & Operation Process</p>	<p>Fire detection shall be achieved using the microprocessor based fire detection cum gas release panel specifically used for each protected area. The detectors shall be in cross zone and the trigger from the panel shall be for 2 stage action.</p> <p>Some of the enhance features of the detection cum gas release panel shall be:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Easy on-site configuration <input type="checkbox"/> Upload / download of configuration data's – - Event logging facilitates identifying origin of events - Display countdown timer before extinguishing release - Extinguishing automatic activation with various alarm combinations - 72h battery backup time - Various system test modes - Automatic calibration facility for actuators control lines (solenoid or pyrotechnical actuators) - Manual Release button for manual activation of extinguishing - Emergency hold button to temporary stop the extinguishing or abort button to cancel the initiated extinguishing release as long as the pre-warning time is running - Remote transmission facility for transmitting alarms and faults - In compliance with EN12094-1 / EN54-2 +A1 / EN54-4 +A2 <p>If in case the fire detection part is handled by a separate fire control panel, the panel shall have the capability to integrate with larger fire detection system. Also the panel shall have the facility to connect repeater panel for remote status indication and remote control.</p> <p>Auto Mode Operation:</p> <p>The sequence of operation of the gas release system shall be as follows –</p> <p>When the any one of the detector connected to the building fire alarm panel goes into alarm, immediately the sounder cum strobe shall get activated.</p> <p>The fire detection cum gas release panel shall ensure that the access control shall get deactivated.</p> <p>The first stage activation in the gas release circuit shall happen only when any one of the detectors in the protected area goes into alarm.</p> <p>When the first stage gets activated, the specific zone numbers and the detectors location shall be displayed and the panel buzzer shall start operating. The stage 1 bells shall be identified by the fact that they pulsate at the rate defined by timer 1.</p>	
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Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>The panel shall also illuminate the "ALARM" lamp on the control panel face.</p> <p>The sounder cum strobe shall remain on until the alarm is silenced in the panel. The panel shall return to normal only after the fire alarm condition is cleared and a reset is performed in the panel.</p> <p>The second stage activation in the gas release panel shall happen when the second detector in the protected area goes into alarm in the second stage or vice versa.</p> <p>The PAC units shall be deactivated. The panel shall also illuminate the "PRE DISCHARGE" lamp on the control panel face</p> <p>When the second stage is activated, the second zone number and the detectors location shall also be displayed on the panel and the sounder shall be activated which is identified by a continuous tone. The stage 2 bells indicate that area is to be evacuated.</p> <p>The timer shall start to trigger the signal for gas release. The delay set time shall NOT exceed 60 seconds. It shall be possible to program the delay timing at site</p> <p>During the delay time period, the Gas release can be aborted by activating the "Manual abort switch" mechanically. The countdown timer shall countdown till 10 second and stop. Once if the abort switch is released, the timer shall start count down from 10 seconds. Releasing and pressing again the manual abort switch shall reset the countdown time to 10 seconds. A buzzer shall be activated when the abort switch is operated.</p> <p>After the expiry of the timer, the output from the actuator output terminal of the panel shall activate and operate the solenoid valve in the master cylinder. It is important to note that the actuator output on the panel shall be enabled only if the automatic gas release mode is selected</p> <p>A Gas sign board with lamp (Located outside the protected area) shall also illuminate indicating that the gas discharge have taken place</p> <p>The gas shall discharge into the protected area within 10 seconds as stipulated in the NFPA 2001 guidelines (2012 edition) or latest edition. The gas shall permeate into all the voids in the desired quantity so that the fire shall be quenched.</p> <p>As long as both the stages remain in alarm, the output to solenoid shall be active. If at least one of the two stage returns to normal as explained above, the delay timer shall stop. The gas release shall not happen if the delay is set to zero.</p> <p>Manual Mode Operation:</p> <p>The manual release shall happen in three ways. Manual Release through the panel, Manual release station & Manual Release directly from the cylinder.</p>	
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Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	<p>The electric manual release (activated through the panel) shall be a dual action switch device which provides a means of manually discharging the suppression system from the panel</p>	
	<p>The manual release station shall also be a dual action device requiring two distinct operations to initiate a system actuation.</p>	
	<p>Manual actuation shall be capable of bypass the time delay or shall have the time delay depending upon the client requirements. It shall be possible to program both at site and abort functions and shall cause all release and shutdown devices to operate in the same manner as if the system had operated automatically.</p>	
	<p>Manual release station shall be located at each entry from the protected hazard and the abort station shall be located at the exit side</p>	
	<p>If the "Manual release lever on the master cylinder shall be activated by operating the lever, the gas shall get released immediately. Abort function can not be performed after activating the manual release lever.</p>	
	<p>Connection Details:</p>	
	<p>The Addressable detectors shall be connected in loops which are independently addressed from the fire alarm panel. Or Conventional detectors shall be used and the same shall be connected to the conventional fire detection cum gas release panel.</p>	
	<p>The manual abort station and manual release stations shall be connected to fire alarm cum gas release panel. In addition the gas release panel shall have the manual mode switch as explained above</p>	
	<p>The discharge pressure switch shall be connected to the gas release panel thro addressable monitor modules.</p>	
	<p>The sounder cum strobes shall be connected gas release panel</p>	
	<p>The solenoid actuator shall be connected to gas release panel in the Gas release terminal</p>	
	<p>The fire trip input for the PAC units are looped and connected to thro addressable control modules to the fire alarm cum gas release panel</p>	
	<p>The Access controlled door release shall be connected to the fire alarm cum gas release panel thro addressable control modules</p>	
	<p>The monitor module shall be connected from the Building fire alarm panel to the gas release panel for alarm communication * fault status of the gas release panel.</p>	
	<p>Manual Release Units/ Stations:</p>	
	<p>Manual release units - double action type shall be provided at each exit of the protected area and as indicated on the drawings. Manual release unit casings shall be coloured YELLOW and shall be inscribed with the lettering " AGENT (NAME) MANUAL RELEASE POINT". Mounting heights for manual release units shall be agreed on site.</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

		<p>Abort Units/ Stations:</p> <p>Abort switches, where provided, shall be located within the protected area and shall be located near the means of egress for the area. The abort switch shall be of a type that requires constant manual pressure to cause abort, In all cases the normal and manual emergency control shall override the abort function. The abort switch shall be clearly recognizable for the purpose intended.</p> <p>The abort units shall be momentary devices requiring constant pressure to maintain contact closure and shall be coloured RED and shall be inscribed with the lettering " AGENT (NAME) ABORT POINT". Mounting heights for abort units shall be agreed on site.</p> <p>Remote Lamp Unit:</p> <p>Remote lamp units shall be provided to give indication of an activated smoke detector within a ceiling or floor void.</p>	
	<p>Docum entatio n</p>	<p>The vendor should prepare & submit the piping Isometric drawing and support the same with a hydraulic flow calculation generated by using the agent's design software. The calculations shall validate the fill density assumed by the bidder.</p> <p>The vendor shall submit copies of the datasheets of the hardware used in the system.</p> <p>The vendor shall also submit calculations to evidence the quantity of agent considered for the system.</p> <p>The System Company should provide, as part of handing over, the as-built drawing, operation manual and maintenance manual. The as-built drawing shall exactly match the Isometric drawing submitted with the flow calculation prior to commencement of work.</p> <p>The vendor must submit, along with the supply invoice, a certificate of authenticity, for the agent.</p> <p>Vendor to submit copy of relevant approvals/test certificates of the offered items along with accessories and fittings.</p> <p>Vendor to provide MSDS and Safety guidelines with respect to "Hazards to Personnel" and Environmental factors regarding its use as clean agent for fire-fighting purposes.</p> <p>Supporting documents indicating the offered clean agent having zero Ozone Depletion Potential</p> <p>The construction drawing and design calculation of the offered item</p> <p>Vendor to provide list of spares to be maintained including cost thereof</p> <p>Vendor shall provide CD/manual/maintenance instruction book, depicting the use and application of the system</p> <p>Vendor to submit third party inspection certificates along with all accessories as required under technical specifications</p> <p>The design & the installation shall be certified by principal system supplier</p>	
	<p>Testing</p>	<p>General:</p>	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

Procedure for Gas Based Fire Suppression System	Prior to placing the completed system in service, the installation should be inspected and tested by qualified personnel to confirm that the system has been properly installed and will function as specified below –
	<input type="checkbox"/> Conformance to System design.
	<input type="checkbox"/> Suitability of piping, its correctness to project design, and its supports.
	<input type="checkbox"/> Operating Sequences
	<input type="checkbox"/> Suitable Hazard Environmental controls and Safety precautions and.
	<input type="checkbox"/> Compliance with the norms of NFPA STD. 2001 (2012 Edition) and other applicable standards.
	Piping:
	Verify that pipe sizes and layout are as indicated on the project working drawings.
	Verify the piping supports and ensure the pipes are secured and restrained from the movement.
	After the installation after system piping is completed, and prior to the connection of the cylinders, accessories, nozzles etc., the discharge piping should be blown out and then Pressure tested for leakage. Plug or Cap all pipe outlets and apply 40 psi (3 bar) pressure with air for 10 minutes. At the end of 10 minutes, the pressure loss shall not exceed 20% of the test pressure. Under no conditions should water be used in testing.
	Cylinders:
	Inspect cylinders and ensure bracketing and cylinders are secure.
	Check pressure gauge and ensure pressure is correct for temperature at cylinder location.
	Check cylinder discharge bends and check valves for proper orientation, connection and tightness.
	Ensure that the cylinder operating components and auxiliary control devices are installed in accordance with the project drawing.
	All the required labelling as done on the cylinders
	Nozzles:
	Ensure each nozzle has an orifice drilled to suit the specific location and discharge flow requirements.
	Verify that nozzle locations and orifice sizes are as indicated in the project drawing.
	Electrical:
All testing of the extinguishing system electrical circuits, Interlocks, Fire detectors and other electrical devices like solenoid actuators shall be carried out in accordance with the systems control panel.	
The control panel should indicate normal supervisory condition.	
Check the smoke detectors are in cross zone.	
Room Integrity Test:	

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

	NFPA2001 states that the design concentration of a clean agent post discharge shall be maintained for a sufficient period of time to ensure there is no re-ignition of fire once suppressed. NFPA 2001 and 12A require an enclosure integrity test as part of the acceptance procedure for all clean agent systems. This includes halocarbon and inert agents. This comprehensive test and calculation predicts the leakage area corresponding to the retention time of agent in the enclosure on discharge. Most specification state it must be ten minutes.	
Warranty	1 year OEM Warranty	

5.7 Contractor's Obligation:

- a. All safety related aspects shall be responsibility of contractor.
- b. While undertaking design and construction works of the Project, the Successful Bidder shall adhere to the latest amended National Building Code of India, other relevant IS & BS codes for all disciplines like civil structural, architectural, interiors, Mechanical, Electrical & Plumbing, IT, instrumentation, Development Control Rules, FSI Limits, statutory requirements, laws of land, the principles of good industry practices and any other norms as applicable from time to time.
- c. All required plant and machinery for execution are in scope.
- d. Curing to brickwork and plaster works in scope, shall be done as per standard practices.
- e. Test reports for all materials to be submitted establishing their conformance to standards.
- f. Stacking of all serviceable materials shall be handed-over to Government. Unserviceable usable materials to be disposed by mechanical transport including loading, unloading etc. for all leads and lifts to the authorized dumping ground of JMC.
- g. For all works RUIDP/PWD specifications shall be applicable and for the items other than this, the bidders shall refer to the BOQ for the detailed specifications.
- h. The electrical materials shall be supplied/installed/commissioned as per group 1/class A of RUIDP (SOR 2017) and all other items shall be as per Group 1/ class A of the prevailing in PWD BSR, Jaipur circle.
- i. All necessary scaffolding for construction of various facilities is in scope. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.
- j. On completion of the work, it will be handed over to JSCL. However, the contractor will be responsible for maintaining the asset for 1 years of Defect Liability Period, during which, the contractor will be liable to rectify or amend the defect, if any, including those for civil works, mechanical/ electrical/ plumbing and instrumentation works, IT instrumentations, etc. and will change all the equipments or parts there of promptly and without any additional cost.
- k. The successful bidder has to undertake O&M for the facilities (excluding civil/ finishing works) for 5 (five) years, after completion of the awarded works.

Section-V: Procurement Entity's Requirements

RFP for Integrated City Operation Centre in existing JSCL building

- l. Structure Stability Certificate to be provided by the contractor at the completion of the work.
- m. The quality assurance, quality control plans to be submitted for approval before commencement of works.
- n. The sample pallets for materials to be submitted for approval before procuring the material.

Note: *Bidders to refer to detailed BOQ for various disciplines attached with the tender.*

Section VIA

General Conditions of Contract

Section VI-A- General Conditions of Contract

Table of Clauses

A. General	4
1. Definitions.....	4
2. Interpretation	6
3. Language and Law	6
4. Engineer's Decisions	6
5. Delegation.....	6
6. Communications	6
7. Subcontracting.....	6
8. Other Contractors	6
9. Personnel and Equipment.....	7
10. Employer's and Contractor's Risks	7
11. Employer's Risks	7
12. Contractor's Risks	7
13. Insurance	7
14. Site Investigation Reports.....	8
15. Contractor to Construct the Works	8
16. The Works to Be Completed by the Intended Completion Date	8
17. Designs by Contractor and Approval by the Engineer	8
18. Safety	9
19. Discoveries	9
20. Possession of the Site.....	9
21. Access to the Site	9
22. Instructions, Inspections and Audits	9
23. Appointment of the Adjudicator	9
24. Procedure for Disputes	9
B. Time Control	10
25. Program	10
26. Extension of the Intended Completion Date	10
27. Acceleration.....	10
28. Delays Ordered by the Engineer	11
29. Management Meetings.....	11
30. Early Warning	11
C. Quality Control	11
31. Identifying Defects	11
32. Tests	11
11	
33. Correction of Defects.....	11
34. Uncorrected Defects	11
D. Cost Control	12
35. Contract Price.....	12
36. Changes in the Contract Price.....	12
37. Variations	12
38. Cash Flow Forecasts	13
39. Payment Certificates.....	13
40. Payments	13
41. Compensation Events	14
42. Tax	15

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

43.	Currencies	15
44.	Price Adjustment.....	15
45.	Retention.....	15
46.	Liquidated Damages	15
47.	Bonus	16
48.	Advance Payment	16
49.	Securities	16
50.	Day works	16
51.	Cost of Repairs.....	17
E. Finishing the Contract.....		17
52.	Completion	17
53.	Taking Over	17
54.	Final Account	17
55.	Operating and Maintenance Manuals	17
56.	Termination.....	17
57.	Fraud and Corruption	18
58.	Payment upon Termination.....	19
59.	Property	19
60.	Release from Performance	19

General Conditions of Contract

A. General

1. Definitions

- 1.1 Boldface type is used to identify defined terms.
- (a) The **Accepted Contract Amount** means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
 - (b) The **Activity Schedule** is a schedule of the activities comprising the construction, installation, testing, and commissioning of the Works in a lump sum contract. It includes a lump sum price for each activity, which is used for valuations and for assessing the effects of Variations and Compensation Events.
 - (c) The **Adjudicator** is the person appointed jointly by the Employer and the Contractor to resolve disputes in the first instance, as provided for in GCC 23.1 hereunder.
 - (d) **Bill of Quantities** means the priced and completed Bill of Quantities forming part of the Bid.
 - (e) **Compensation Events** are those defined in GCC 41.1 hereunder.
 - (f) The **Completion Date** is the date of completion of the Works as certified by the Engineer, in accordance with GCC 52.1.
 - (g) The **Contract** is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in GCC 2.3 below.
 - (h) The **Contractor** is the party whose Bid to carry out the Works has been accepted by the Employer.
 - (i) The **Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.
 - (j) The **Contract Price** is the Accepted Contract Amount stated in the Letter of Acceptance and thereafter as adjusted in accordance with the Contract.
 - (k) **Days** are calendar days; months are calendar months.
 - (l) **Day works** are varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.
 - (m) A **Defect** is any part of the Works not completed in accordance with the Contract.
 - (n) The **Defects Liability Certificate** is the certificate issued by Engineer upon correction of defects by the Contractor.
 - (o) The **Defects Liability Period** is the period calculated from the Completion Date where the Contractor remains responsible for remedying defects.
 - (p) **Drawings** include calculations and other information provided or approved by the Engineer for the execution of the Contract.
 - (q) The **Employer or Procurement Entity** is the party who employs the Contractor to carry out the Works, as specified in the **SCC**.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- (r) The **Engineer** is the person named in the **SCC** (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.
- (s) **Equipment** is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
- (t) **Force Majeure** means an exceptional event or circumstance: which is beyond a Party's control; which such Party could not reasonably have provided against before entering into the Contract; which, having arisen, such Party could not reasonably have avoided or overcome; and, which is not substantially attributable to the other Party.
- (u) The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.
- (v) The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the **SCC**. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time or an acceleration order.
- (w) **Letter of Acceptance** means the formal acceptance by the Employer of the Bid and denotes the formation of the Contract at the date of acceptance.
- (x) **Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works.
- (y) "**Party**" means the Employer or the Contractor, as the context requires.
- (z) **SCC** means Special Conditions of Contract
- (aa) **Plant** is any integral part of the Works that shall have a mechanical, electrical, chemical, or biological function.
- (bb) **Retention Money** means the aggregate of all monies retained by the Employer pursuant to GCC 45.1.
- (cc) The **Site** is the area defined as such in the **SCC**.
- (dd) **Site Investigation Reports** are those that were included in the bidding documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.
- (ee) **Specification** means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.
- (ff) The **Start Date** is given in the **SCC**. It is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- (gg) A **Sub-contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.
- (hh) **Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- (ii) A **Variation** is an instruction given by the Engineer which varies the Works.
 - (jj) The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the **SCC**.
- 2. Interpretation**
 - 2.1 In interpreting these GCC, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer shall provide instructions clarifying queries about these GCC.
 - 2.2 If sectional completion is specified in the **SCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
 - 2.3 The documents forming the Contract shall be interpreted in the following order of priority:
 - (a) Agreement,
 - (b) Letter of Acceptance,
 - (c) Contractor's Bid,
 - (d) Special Conditions of Contract,
 - (e) General Conditions of Contract,
 - (f) Specifications,
 - (g) Drawings,
 - (h) Bill of Quantities (or Schedules of Prices for lump sum contracts), and
 - (i) any other document listed in the **SCC** as forming part of the Contract.
- 3. Language and Law**
 - 3.1 The language of the Contract and the law governing the Contract are stated in the **SCC**.
- 4. Engineer's Decisions**
 - 4.1 Except where otherwise specifically stated, the Engineer shall decide contractual matters between the Employer and the Contractor in the role representing the Employer.
- 5. Delegation**
 - 5.1 The Engineer may delegate any of his duties and responsibilities to other people, except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.
- 6. Communications**
 - 6.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.
- 7. Subcontracting**
 - 7.1 The Contractor may subcontract with the approval of the Engineer, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.
- 8. Other Contractors**
 - 8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as **referred to in the SCC**. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

modification.

- 9. Personnel and Equipment**
- 9.1 The Contractor shall employ the key personnel and use the equipment identified in its Bid to carry out the Works, or other personnel and equipment approved by the Engineer. The Engineer shall approve any proposed replacement of key personnel and equipment only if their relevant qualifications or characteristics are substantially equal to or better than those proposed in the Bid.
- 9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.
- 10. Employer's and Contractor's Risks**
- 10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.
- 11. Employer's Risks**
- 11.1 From the Start Date until the Defects Liability Certificate has been issued, the following are Employer's risks:
- (a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to
 - (i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or
 - (ii) Negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.
 - (b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.
- 11.2 From the Completion Date until the Defects Liability Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is an Employer's risk except loss or damage due to
- (a) a Defect which existed on the Completion Date,
 - (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or
 - (c) The activities of the Contractor on the Site after the Completion Date.
- 12. Contractor's Risks**
- 12.1 From the Starting Date until the Defects Liability Certificate has been issued, the risks of personal injury, death, and loss of or damage to property (including, without limitation, the Works, Plant, Materials, and Equipment) which are not Employer's risks are Contractor's risks.
- 13. Insurance**
- 13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts and deductibles stated in the **SCC** for the following events which are due to the Contractor's risks:
- (a) loss of or damage to the Works, Plant, and Materials;
 - (b) loss of or damage to Equipment;

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- (c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
 - (d) Personal injury or death.
- 13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.
- 13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.
- 13.4 Alterations to the terms of insurance shall not be made without the approval of the Engineer.
- 13.5 Both parties shall comply with any conditions of the insurance policies.
- 14. Site Investigation Reports**
 - 14.1 The Contractor, in preparing the Bid, shall rely on any Site Investigation Reports referred to in the **SCC**, supplemented by any information available to the Bidder.
- 15. Contractor to Construct the Works**
 - 15.1 The Contractor shall construct and install the Works in accordance with the Specifications and Drawings.
- 16. The Works to Be Completed by the Intended Completion Date**
 - 16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.
- 17. Designs by Contractor and Approval by the Engineer**
 - 17.1 The Contractor shall carry out design to the extent specified in the **SCC**. The Contractor shall promptly submit to the Employer all designs prepared by him. Within 14 days of receipt, the Employer shall notify any comments. The Contractor shall not construct any element of the permanent work designed by him within 14 days after the design has been submitted to the Employer or where the design for that element has been rejected. Design that has been rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.
 - 17.2 The Contractor shall be responsible for design of Temporary Works.
 - 17.3 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.
 - 17.4 The Engineer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.
 - 17.5 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.
 - 17.6 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- Engineer before this use.
- 18. Safety** 18.1 The Contractor shall be responsible for the safety of all activities on the Site.
- 19. Discoveries** 19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.
- 20. Possession of the Site** 20.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the **SCC**, the Employer shall be deemed to have delayed the start of the relevant activities, and this shall be a Compensation Event.
- 21. Access to the Site** 21.1 The Contractor shall allow the Engineer and any person authorized by the Engineer access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.
- 22. Instructions, Inspections and Audits** 22.1 The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.
- 22.2 The Contractor shall permit the Employer to inspect the Contractor's accounts, records and other documents relating to the submission of bids and contract performance and to have them audited by auditors appointed by the Employer. The Contractor shall maintain all documents and records related to the Contract for a period of three (3) years after completion of the Works. The Contractor shall provide any documents necessary for the investigation of allegations of fraud, collusion, coercion, or corruption and require its employees or agents with knowledge of the Contract to respond to questions from the Employer.
- 23. Appointment of the Adjudicator** 23.1 The Adjudicator shall be appointed jointly by the Employer and the Contractor, at the time of the Employer's issuance of the Letter of Acceptance. If, in the Letter of Acceptance, the Employer does not agree on the appointment of the Adjudicator, the Employer will request the Appointing Authority **designated in the SCC**, to appoint the Adjudicator within 14 days of receipt of such request.
- 23.2 Should the Adjudicator resign or die, or should the Employer and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the contract; a new Adjudicator shall be jointly appointed by the Employer and the Contractor. In case of disagreement between the Employer and the Contractor, within 30 days, the Adjudicator shall be designated by the Appointing Authority at the request of either party, within 14 days of receipt of such request.
- 24. Procedure for Disputes** 24.1 If the Contractor believes that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within 14 days of the notification of the Engineer's decision.
- 24.2 The Adjudicator shall give a decision in writing within 28 days of receipt of a notification of a dispute.
- 24.3 The Adjudicator shall be paid by the hour at the rate specified in the **SCC**, together with reimbursable expenses of the types specified in the

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

Contract Data, and the cost shall be divided equally between the Employer and the Contractor, whatever decision is reached by the Adjudicator. Either party may refer a decision of the Adjudicator to an Arbitrator within 28 days of the Adjudicator's written decision. If neither party refers the dispute to arbitration within the above 28 days, the Adjudicator's decision shall be final and binding.

- 24.4 The arbitration shall be conducted in accordance with the arbitration procedures published by the institution named and in the place specified in the **SCC**.

B. Time Control

25. Program

- 25.1 Within the time stated in the **SCC**, after the date of the Letter of Acceptance, the Contractor shall submit to the Engineer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works. In the case of a lump sum contract, the activities in the Program shall be consistent with those in the Activity Schedule.
- 25.2 An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.
- 25.3 The Contractor shall submit to the Engineer for approval an updated Program at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program within this period, the Engineer may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted. In the case of a lump sum contract, the Contractor shall provide an updated Activity Schedule within 14 days of being instructed to by the Engineer.
- 25.4 The Engineer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Engineer again at any time. A revised Program shall show the effect of Variations and Compensation Events.

26. Extension of the Intended Completion Date

- 26.1 The Engineer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work, which would cause the Contractor to incur additional cost.
- 26.2 The Engineer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

27. Acceleration

- 27.1 When the Employer wants the Contractor to finish before the Intended Completion Date, the Engineer shall obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Employer accepts these proposals, the Intended Completion Date shall be adjusted accordingly and confirmed by both the Employer and the Contractor.
- 27.2 If the Contractor's priced proposals for an acceleration are accepted by

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

the Employer, they are incorporated in the Contract Price and treated as a Variation.

- 28. Delays Ordered by the Engineer** 28.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.
- 29. Management Meetings** 29.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 29.2 The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.
- 30. Early Warning** 30.1 The Contractor shall warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works. The Engineer may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the Contract Price and Completion Date. The estimate shall be provided by the Contractor as soon as reasonably possible.
- 30.2 The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer.

C. Quality Control

- 31. Identifying Defects** 31.1 The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.
- 32. Tests** 32.1 If the Engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event.
- 33. Correction of Defects** 33.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the **SCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 33.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Engineer's notice.
- 34. Uncorrected Defects** 34.1 If the Contractor has not corrected a Defect within the time specified in the Engineer's notice, the Engineer shall assess the cost of having the Defect corrected, and the Contractor shall pay this amount.

D. Cost Control

- 35. Contract Price**
- 35.1 In the case of an admeasurements contract, the Bill of Quantities shall contain priced items for the Works to be performed by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor will be paid for the quantity of the work accomplished at the rate in the Bill of Quantities for each item.
- 35.2 In the case of a lump sum contract, the Activity Schedule shall contain the priced activities for the Works to be performed by the Contractor. The Activity Schedule is used to monitor and control the performance of activities on which basis the Contractor will be paid. If payment for Materials on Site shall be made separately, the Contractor shall show delivery of Materials to the Site separately on the Activity Schedule.
- 36. Changes in the Contract Price**
- 36.1 In the case of an admeasurements contract:
- (a) If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item by more than 25 percent, provided the change exceeds 1 percent of the Initial Contract Price, the Engineer shall adjust the rate to allow for the change.
 - (b) The Engineer shall not adjust rates from changes in quantities if thereby the Initial Contract Price is exceeded by more than 15 percent, except with the prior approval of the Employer.
 - (c) If requested by the Engineer, the Contractor shall provide the Engineer with a detailed cost breakdown of any rate in the Bill of Quantities.
- 36.2 In the case of a lump sum contract, the Activity Schedule shall be amended by the Contractor to accommodate changes of Program or method of working made at the Contractor's own discretion. Prices in the Activity Schedule shall not be altered when the Contractor makes such changes to the Activity Schedule.
- 37. Variations**
- 37.1 All Variations shall be included in updated Programs, and, in the case of a lump sum contract, also in the Activity Schedule, produced by the Contractor.
- 37.2 The Contractor shall provide the Engineer with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven (7) days of the request or within any longer period stated by the Engineer and before the Variation is ordered.
- 37.3 If the Contractor's quotation is unreasonable, the Engineer may order the Variation and make a change to the Contract Price, which shall be based on the Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- 37.4 If the Engineer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
- 37.5 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- 37.6 In the case of an admeasurements contract, if the work in the Variation corresponds to an item description in the Bill of Quantities and if, in the opinion of the Engineer, the quantity of work above the limit stated in GCC 36.1 or the timing of its execution do not cause the cost per unit of quantity to change, the rate in the Bill of Quantities shall be used to calculate the value of the Variation. If the cost per unit of quantity changes, or if the nature or timing of the work in the Variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of work.
- 38. Cash Flow Forecasts**
- 38.1 When the Program, or, in the case of a lump sum contract, the Activity Schedule, is updated, the Contractor shall provide the Engineer with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.
- 39. Payment Certificates**
- 39.1 The Contractor shall submit to the Engineer monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
- 39.2 The Engineer shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- 39.3 The value of work executed shall be determined by the Engineer.
- 39.4 The value of work executed shall comprise:
- (a) In the case of an admeasurements contract, the value of the quantities of work in the Bill of Quantities that have been completed; or
 - (b) In the case of a lump sum contract, the value of work executed shall comprise the value of completed activities in the Activity Schedule.
- 39.5 The value of work executed shall include the valuation of Variations and Compensation Events.
- 39.6 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- 40. Payments**
- 40.1 Payments shall be adjusted for deductions for advance payments and retention. The Employer shall pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment in the next payment. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made at the prevailing rate of interest for commercial borrowing for each of the currencies in which payments are made.
- 40.2 If an amount certified is increased in a later certificate or as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

40.3 Unless otherwise stated, all payments and deductions shall be paid or charged in the proportions of currencies comprising the Contract Price.

40.4 Items of the Works for which no rate or price has been entered in shall not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

41. Compensation Events

41.1 The following shall be Compensation Events:

- (a) The Employer does not give access to a part of the Site by the Site Possession Date pursuant to GCC 20.1.
- (b) The Employer modifies the Schedule of Other Contractors in a way that affects the work of the Contractor under the Contract.
- (c) The Engineer orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time.
- (d) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects.
- (e) The Engineer unreasonably does not approve a subcontract to be let.
- (f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Letter of Acceptance from the information issued to bidders (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site.
- (g) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- (h) Other contractors, public authorities, utilities, or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- (i) The advance payment is delayed.
- (j) The effects on the Contractor of any of the Employer's Risks.
- (k) The Engineer unreasonably delays issuing a Certificate of Completion.

41.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.

41.3 As soon as information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost has been provided by the Contractor, it shall be assessed by the Engineer, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Engineer shall adjust the Contract Price based on his own forecast. The Engineer shall assume that the Contractor shall react competently and promptly to the event.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- 41.4 The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor's not having given early warning or not having cooperated with the Engineer.
- 42. Tax**
- 42.1 The Engineer shall adjust the Contract Price if taxes, duties, and other levies are changed between the date 28 days before the submission of bids for the Contract and the date of the last Completion certificate. The adjustment shall be the change in the amount of tax payable by the Contractor, provided such changes are not already reflected in the Contract Price or are a result of GCC 44.1.
- 43. Currencies**
- 43.1 Where payments are made in currencies other than the currency of the Employer's country specified in the **SCC**, the exchange rates used for calculating the amounts to be paid shall be the exchange rates stated in the Contractor's Bid.
- 44. Price Adjustment**
- 44.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the **SCC**. If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type indicated below applies to each Contract currency:
- $P_c = A_c + B_c \text{ Imc/loc}$**
- where:
- P_c is the adjustment factor for the portion of the Contract Price payable in a specific currency "c."
- A_c and B_c are coefficients specified in the **SCC**, representing the nonadjustable and adjustable portions, respectively, of the Contract Price payable in that specific currency "c;" and
- Imc is a consolidated index prevailing at the end of the month being invoiced and loc is the same consolidated index prevailing 28 days before Bid opening for inputs payable; both in the specific currency "c."
- 44.2 If the value of the index is changed after it has been used in a calculation, the calculation shall be corrected and an adjustment made in the next payment certificate. The index value shall be deemed to take account of all changes in cost due to fluctuations in costs.
- 45. Retention**
- 45.1 The Employer shall retain from each payment due to the Contractor the proportion stated in the **SCC** until Completion of the whole of the Works.
- 45.2 Upon the issue of a Certificate of Completion of the Works by the Engineer, in accordance with GCC 52.1, half the total amount retained shall be repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected. The Contractor may substitute retention money with an "on demand" bank guarantee.
- 46. Liquidated Damages**
- 46.1 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the **SCC** for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the **SCC**. The Employer may deduct liquidated damages from payments due to

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

46.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in GCC 40.1.

47. Bonus

47.1 The Contractor shall be paid a Bonus calculated at the rate per calendar day stated in the SCC for each day (less any days for which the Contractor is paid for acceleration) that the Completion is earlier than the Intended Completion Date. The Engineer shall certify that the Works are complete, although they may not be due to be complete.

48. Advance Payment

48.1 The Employer shall make advance payment to the Contractor of the amounts stated in the **SCC** by the date stated in the **SCC**, against provision by the Contractor of an unconditional bank guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to the advance payment. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest shall not be charged on the advance payment.

48.2 The Contractor is to use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the Engineer.

48.3 The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

49. Securities

49.1 The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount specified in the **SCC**, by a bank acceptable to the Employer, and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a bank guarantee.

50. Day works

50.1 If applicable, the Day works rates in the Contractor's Bid shall be used for small additional amounts of work only when the Engineer has given written instructions in advance for additional work to be paid for in that way.

50.2 All work to be paid for as Day works shall be recorded by the Contractor on forms approved by the Engineer. Each completed form shall be verified and signed by the Engineer within two days of the work being done.

50.3 The Contractor shall be paid for Day works subject to obtaining signed Day works forms.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- 51. Cost of Repairs** 51.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

- 52. Completion** 52.1 The Contractor shall request the Engineer to issue a certificate of Completion of the Works, and the Engineer shall do so upon deciding that the work is completed.

- 53. Taking Over** 53.1 The Employer shall take over the Site and the Works within seven days of the Engineer's issuing a certificate of Completion.

- 54. Final Account** 54.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate.

- 55. Operating and Maintenance Manuals** 55.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the **SCC**.

- 55.2 If the Contractor does not supply the Drawings and/or manuals by the dates **stated in the SCC** pursuant to GCC 55.1, or they do not receive the Engineer's approval, the Engineer shall withhold the amount **stated in the SCC** from payments due to the Contractor.

- 56. Termination** 56.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

- 56.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- (a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Engineer;
- (b) the Engineer instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within 28 days;
- (c) the Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (d) a payment certified by the Engineer is not paid by the Employer to the Contractor within 84 days of the date of the Engineer's certificate;
- (e) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (f) the Contractor does not maintain a Security, which is required;

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

and

- (g) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the **SCC**.
- (h) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to GCC 57.1.

56.3 When either party to the Contract gives notice of a breach of Contract to the Engineer for a cause other than those listed under GCC 56.2 above, the Engineer shall decide whether the breach is fundamental or not.

56.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

56.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

57. Fraud and Corruption

57.1 Employer requires that Contractors, Subcontractors, manufacturers, and Consultants under Employer-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the Employer:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) “fraudulent practice” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.
- (b) will cancel the portion of the allocated to a contract if it determines at any time of the engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract, without having taken timely and appropriate action satisfactory to the Employer to remedy the situation; and
- (c) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a Employer-financed contract if it at any time determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Employer-financed contract.

Section-VI A: General Conditions of Contract

RFP for Integrated City Operation Centre in existing JSCL building

- 58. Payment upon Termination**
- 58.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the **SCC**. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer.
- 58.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
- 59. Property**
- 59.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer if the Contract is terminated because of the Contractor's default.
- 60. Release from Performance**
- 60.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

SECTION VIB: SPECIAL CONDITIONS OF CONTRACT

The following Particular Conditions of Contract shall complement, amend, supplement the GCC and the Clause Numbers provided herein refer to the same Clause Numbers provided in the Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. This Section shall therefore be read in conjunction with Section VIA of the Bid Documents.

1. Definitions

- h. Add after first sentence:
Purchaser will also mean Procuring Entity and Employer.

9. Delivery

The details of supply / shipping and other documents to be furnished by the successful/ selected bidder with invoices are:

Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:

- (a) Five copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount;
- (b) delivery note, railway receipt, or truck receipt;
- (c) Manufacturer's or Supplier's warranty certificate;
- (d) inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report;

The Purchaser, shall receive the above documents before the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

12. Contract Price

b) No Price Adjustment shall be applicable, except when the final quantity exceeds by more than 50% than the quantity mentioned in the Contract. In the event of such change ordered by the Purchaser, the Supplier may ask for price revision and the Purchaser will take a decision judging the merit of the case. However, no change in rates agreed in the Contract will be applicable when the quantity supplied finally is less than the quantities appearing in the contract.

Add additional sub clauses:

- e) All payments under this Agreement shall be made in Indian Rupees.
- f) The Employer shall make interim payments to the Contractor as certified by the Engineer on completion of the works as per Price Schedule/ BoQ.
- g) The payment for the services during the operation and maintenance will be made on submission and certification of monthly invoice.

14 Performance Security

Add the following sub clauses:

14.5 Two (2) separate Completion/ Acceptance certificates one each for Goods and Services and O&M services will be issued by the Purchaser.

14.6 The subject contract will entail the bidder to submit Two separate Performance Securities, one for Supply, installation, commissioning of the system and the other for Operation and Maintenance of the system for Five (5) years. The Implementation phase and O&M phase Performance Securities will amount to 5% of the Agreement price for the corresponding phases.

18. Warranty

18.3 The warranty of all items of Goods, will remain valid for **Thirty-Six (36)** months after the Goods, or any portion thereof as the case may be, have been delivered to, accepted at the final destination and commissioned as part of the Smart Passenger Information System

20. Sub Contracting

Under this contract Sub-Contracting is not allowed.

22. Insurance

- a) the Supplier must insure the Goods in an amount equal to 110 percent of the price of the Goods from “Warehouse” to “Warehouse” on “All Risks” basis, including War Risks and Strikes.”
- b) Separate insurance coverage during the O& M phase will be applicable, for; (a) for the Works, Plant and Materials; (b) for loss or damages to equipment; (c) for loss or damage to property (except the Works, Plant, Materials and Equipment) in connection with Contract; (d) for personal injury or death; (i) of the Contractor’s employees; (ii) of other people and any other items as per rules / statutes of Government of Rajasthan.

Add the following additional Clauses:

37. Project / Contract Period: The successful Bidder is expected to carry out all groundwork before the start of the services as directed by the Nodal Officer of this project. Initially the contract period shall be as per delivery schedule mentioned in the bidding document. The contract period can be extended on mutual consent on approved rates as per Act.

38. Personnel

The Contractor shall provide details of the following Schedule of Key Personnel which summarizes their qualifications and experience.

Schedule of Key Personnel Implementation Phase

Position	Name	Nos.	Qualification	Total Years of Experience	Years of Relevant Experience
Project In-charge		1	Similar work experience in minimum 3 Project of Installation & Successful delivery of Video Walls, Smart Rack / Data Centre	8 years	3-5 years

Position	Name	Nos.	Qualification	Total Years of Experience	Years of Relevant Experience
			/NOC including fire Sensors, Access control & CCTV		
Hardware Technician		1	Diploma in Hardware/ Networking cum Trained in Electrical & Instrumentation.	3 years	2 years

A) Penalty for Personnel Not Availability

If the professionals to be deputed for the project remain absent, a suitable substitute shall immediately be provided. Penalty on non-availability of manpower resources will be deducted as given below :

Type of Professional	Penalty on non-availability of resource
Project In-charge	Rs. 1500.00 per resource per absent days
Hardware Technician	Rs. 500.00 per resource per absent days

- a) The deduction will be made against the absence of manpower and will be deducted from the invoices submitted.

B) Penalty in Operation and Maintenance Phase for noncompliance to performance standards

1. *SERVICE AVAILABILITY*

a. UPTIME (Video Controller, Smart Rack & UPS):

- a. SLA Requirement – Average uptime should be $\geq 99\%$
b. Report Requirement – Average Uptime (Availability) Report

Calculation Criteria	Amount of penalty
Average Uptime 99% or above	No penalty
Average Uptime between 95% - 98%	1% of the QGR amount
Average Uptime between 90% - 94%	2% of the QGR amount
Average Uptime below 90%	5% of the QGR amount

b. UPTIME (Biometric, Fire, Rodent, Video Wall LED & Others Equipment's):

- a. SLA Requirement – Average uptime should be $\geq 97\%$ per quarter.
b. Report Requirement – Average Uptime (Availability) Report

Calculation Criteria	Amount of penalty
Average Uptime 97% or above	No penalty
Average Uptime between 93% - 97%	1% of the QGR amount
Average Uptime between 90% - 93%	2% of the QGR amount
Average Uptime below 90%	5% of the QGR amount

39 Dispute Resolution in a Construction Contract

Since arbitrations are fairly time consuming, it is always advisable to sort out the disputes mutually through the mechanism of adjudication through Dispute Resolution Board (DRB), which is a sort of voluntary arbitration. Arbitration can be resorted to if the adjudication decision is not forthcoming or is not acceptable to any party. For dispute resolution following procedure will be followed:

39.1 *Dispute Resolution Board (DRB)*

- (a) A formal Sub-Clause of obtaining dispute resolution through DRB will be inserted in the Conditions of the Contract. A separate Dispute Resolution Agreement will also be drawn up, detailing therein provisions like: Eligibility of Members, date of commencement, manner of entry on the reference by the Members and their resignation; obligation of the Members, the Procuring Entity and the Contractor; terms of payment (monthly retainer-ship fee, daily fee for travel & site visits, out-of-pocket expenses); manner of sharing the fees and expenses and of making payments; arrangements of site visits and their frequency; conduct of hearings; termination/ phasing out the activities of DRB; default of the Member, and action to be taken in case of dispute in relation to DRB Agreement, etc.
- (b) DRB should be put in place within one month of Letter of Acceptance.
- (c) The DRB for all projects costing more than Rs 10 crore will comprise of three Members, one each to be appointed by the Procuring Entity and the Contractor and approved by the other. The third Member, who will also act as the presiding Member, will be selected by the first two Members and approved by the parties. If either of the first two Members is not so selected and approved, or the parties fail to reach an agreement on the third Member then on request of either or both parties, appointment will be made by concerned Administrative Department in case of Government Departments and Head of the Organization (Chairman, etc.) concerned in other cases.
- (d) The Members to be appointed shall be out of a panel maintained by the

Department/ Organization concerned and should be experienced in the type of construction actually involved and/ or finance and accounts and/ or contractual documents. **They should be persons of repute and integrity.**

- (e) If any dispute that arises at any stage between the Procuring Entity and the Contractor in connection with, or arising out of the Contract or the execution of the Works, including any disagreement by either party with any action, inaction, opinion, instruction, determination, certificate or valuation of the Engineer, the matter in dispute shall, in the first place, should be tried to be settled amicably. If the dispute still remains unsettled, it shall be referred to the DRB.
- (f) Both parties shall promptly make available all information, access to the Site, and appropriate facilities, as the DRB may require for the purposes of making a recommendation on such dispute.
- (g) Within 56 days after receiving such reference, or within such other period as may be proposed by the DRB and approved by both parties, the DRB shall give its recommendation with reasons. The recommendation shall be binding on both parties, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the Contract has already been abandoned, repudiated or terminated, the Contractor shall continue to proceed with the Works in accordance with the Contract.
- (h) If either party is dissatisfied with the recommendation, then either party may, within 28 days after receiving the recommendation, or if the DRB fails to give its recommendation within 56 days (or as otherwise approved), within 28 days after the said period of 56 days has expired, give notice to the other party, with a copy to the Engineer-in-Charge, of its intention to commence arbitration proceedings.
- (i) If the DRB has given its decision within the stipulated period, and no notice of intention to commence arbitration as to such dispute has been given by either party within 28 days of the said decision, then the decision of DRB shall become final and binding.

39.2 Arbitration

39.2.1 Any dispute in respect of which the recommendations (if any) of DRB has not become final and binding, shall be finally settled by arbitration in accordance with the Indian' Arbitration and Conciliation Act, 1996, or any statutory amendment thereof.

39.2.2 The Arbitral Tribunal will comprise three Members, one each to be appointed by the Procuring Entity and the Contractor. The third Member, who will also act as the presiding Member, will be appointed by mutual consent of the first two Members. If the parties fail to reach an agreement on the third Member then on request of either or both parties, appointment will be made by concerned Administrative Department in case of Government Departments and Head of the Organization (Chairman, etc.)

concerned in other cases.

39.2.3 The Tribunal shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer-in-Charge, and any decision of the DRB, relevant to the dispute.

39.2.4 Neither party shall be limited in the proceedings before the Tribunal to the evidence or arguments previously put before the DRB to obtain its decision, or to the reasons for dissatisfaction given in its notice of dissatisfaction.

39.2.5 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, the Engineer-in-Charge and the DRB shall not be altered by reason of any arbitration being conducted during the progress of the Works.

39.3 Language

All proceedings before DRB/ arbitral tribunal shall be in the Language of the Contract i.e. English.

39.4 Terms and conditions for engagement of DRB Member and Chairman

The terms and conditions including the remuneration and other facilities to be given to the Members of DRB and Arbitrators in case of civil engineering construction contracts/ consultancies shall be as notified by the State Government from time to time. Each Party to the Contract (the Contractor/ Consultant) shall be responsible for paying one-half of the remuneration. Since the fee structure has to be agreed by both the parties i.e. Procuring Entity and Contractor/ Consultant, the fee structure may also be got accepted by the respective Contractor/ Consultants. In the contracts the fee structure may be included as part of the bidding documents/ contract documents and the acceptance of the fee structure by the Contractors/ Consultants may be kept as a pre-condition for signing the Contract.

40 Delivery and Start of Services: The successful Bidder will start the services as per the date mentioned in the Award of Contract Letter of Award (LOA) which will also be treated as the start of project date.

41 Manpower

41.1 The operational man power, as detailed in Section V, Schedule of Supply of this bidding document, will work under the guidance of Nodal Officer, JAIPUR SMART CITY LIMITED.

41.2 The successful bidder will submit the list of professional manpower designated to work in this project, along with their CVs to the Nodal Officer, JAIPUR SMART CITY LIMITED.

41.3 The professionals in the team, will be entitled for Government Holidays. However, their services will be provided even on Government Holidays, if deemed required by the Nodal Officer, without any extra cost.

- 41.4** In case there is a need to replace an existing member of the professional team, as requested by the Nodal officer, the bidder will replace the same within 7 days.
- 41.5** If the bidder and /or his employees are found to be directly or indirectly involved in any unwanted activities, his services would be discounted / terminated.
- 41.6** The legal bidding as per the industries dispute act. Payment of wages act, contract labour Act., and others pertaining to Civil/Criminal legislation, Medical claim if any, are the obligations of the bidder. The JAIPUR SMART CITY LIMITED would have no responsibility for the same.
- 41.7** It is the responsibility of the bidder to provide payments, and other facilities as per the nominal wages in accordance with the law. All issues pertaining to the same would be dealt with by the bidder. The JAIPUR SMART CITY LIMITED would have no role in this.
- 41.8** The State insurance, Provident Fund, Pension Gratuity, leaves, wages etc. as applicable, would have to be provided by the bidder and he would also be accountable for the employees. If for any reason, legal proceeding is undertaken against any employee, the bidder shall bear the responsibility. The JAIPUR SMART CITY LIMITED would not represent the same.
- 41.9** JAIPUR SMART CITY LIMITED shall not have any liability/pay compensation towards any injury/ accident to the firm's employee while carrying out the maintenance/repair work under this contract.
- a. The bidder should also ascertain that as per contract the employees would not from any group/union etc. and would also not participate in such nor represent the same. If such incidence comes under the notice of the JAIPUR SMART CITY LIMITED, it would terminate the contract.

55 Operating and Maintenance Manuals

As built drawings- Successful bidder to submit as built drawings for all discipline (Architectural, electrical, IT, etc.) in 4 sets (A2 size) and one CD.
The final invoice shall be processed upon approval of all as built drawings.

Section VI C: Contract Forms

Table of Contents

1. Letter of Acceptance	
2. Contract Agreement	
3. Performance Security.....	
4. Performance Security Declaration	
5. Contract Agreement Works.....	

1. Letter of Acceptance

Letter of Acceptance

[on letter head paper of the Procuring Entity]

No. *Dated*

To: *[name and address of the Contractor]*

Subject: *[Notification of Award for the Works]*

This is to notify you that your Bid dated *[date]* for execution of the
[name of the contract and identification number, as given in the Contract Data]
.. for the Accepted Contract Amount of the equivalent of *[amount in numbers and
words and name of currency]*, as corrected and modified in negotiations and in
accordance with the Instructions to Bidders has been accepted by *[designation of the
Procuring Entity]* The date of commencement and completion of the Works
shall be:

You are requested to furnish the Performance Security/ Performance Security Declaration
within Days in the form given in the Contract Forms for the same for an amount
equivalent to Rupees within days of notification of the award valid up to 60
days after the date of expiry of Defects Liability Period and maintenance period, if applicable,
and sign the Contract, failing which action as stated in sub-section 2 of section 42 of the
Rajasthan Transparency in Public Procurement Act, 2012 and Instructions to Bidders shall be
taken.

Authorized Signature:

Name and Title of Signatory: Chief Executive Officer, JSCL, Jaipur.

Designation:

2. Contract Agreement.

Contract Agreement

THIS AGREEMENT made theday of,, between the Governor of Rajasthan/ **[Jaipur Smart City Limited]**. (hereinafter “the Procuring Entity”) which expression shall, where the context so admits, be deemed to include his successors in office and assigns, of the one part, and **[name of the Contractor]**(hereinafter “the Contractor”), which expression shall, where the context so admits, be deemed to include his heirs, successors, executors and administrators, of the other part:

WHEREAS the *Procuring Entity* desires that the Works known as **[name of the Contract]** should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein, and for which the Contractor has submitted Performance Security for Rupees ----- in the form of -----
----- (For Jaipur Smart City Limited)

The Procuring Entity and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - a) the Letter of Acceptance;
 - b) the Bid of the Contractor as accepted alongwith the correspondence done on it, if any;
 - c) the Special Conditions of Contract/ Contract Data;
 - d) the General Conditions of Contract;
 - e) the Specifications;
 - f) the Drawings; and
 - g) the Instructions to Bidders and Notice Inviting Bids.
3. In consideration of the payments to be made by the Procuring Entity to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Procuring Entity to execute the Works and to remedy defects therein (and, if applicable, maintain the Works for a period of -----) in conformity in all respects with the provisions of the Contract.
4. The Procuring Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein (and, if applicable, maintain the Works for a period of -----), the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of India and Rajasthan on the day, month and year indicated above.

Signed by

Signed by.....

for and on behalf of the Governor/ Palika Entity

for and on behalf the Contractor

(Chief Executive Officer, JSCL)

in the presence of

in the presence of

Witness, Name, Signature, Address, Date

Witness, Name, Signature, Address, Date

3. Performance Security

Performance Security

..... ***[Bank's Name, and Address of Issuing Branch or Office]***

Beneficiary: ***[Name and Address of Procuring Entity (Chief Executive Officer, Jaipur Smart City Limited)]***

Date:

Performance Guarantee No.:

We have been informed that ***[name of the Contractor]*** (hereinafter called "the Contractor") has entered into Contract No. ***[reference number of the Contract]***. dated with you, for the execution of ***[name of contract and brief description of Works]*** (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance security is required.

At the request of the Contractor, we ***[name of the Bank]*** hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of Rupees* ***[amount in figures]*** (Rupees..... ***[amount in words]***) such sum being payable upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

The Guarantor agrees to extend this guarantee for a specified period in response to the Procuring Entity's written request for such extension for that specified period, provided that such request is presented to the Guarantor before the expiry of the guarantee.

This guarantee shall expire, no later than the Day of **, and any demand for payment under it must be received by us at this office on or before that date.

.....
Seal of Bank and Authorised Signature(s)

*** The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Contract**

**** Insert the date sixty days after the expected completion date, including defect liability period and maintenance period, if any.**

Notes: 1. All italicized text is for guidance on how to prepare this advance payment guarantee and shall be deleted from the final document.

2. The Procuring Entity should note that in the event of an extension of the time for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

4. Performance Security Declaration

Form of Performance Security Declaration

Date: _____ **[insert date (as day, month and year)]**

Contract Name and No.: _____ **[insert name and number of Contract]**

To: _____ **[insert Designation and complete address of Procuring Entity]**

We, the undersigned, declare that:

We understand that, according to your conditions, the Contract must be supported by a Performance Security Declaration as a guarantee to ensure fulfillment of our all performance obligations under the Contract for _____ **[insert name of subject matter of procurement]**.

We accept that we will automatically be suspended from being eligible for bidding in any contract with you for the period of time of _____ **[Procuring Entity to indicate here the period of time for which the Procuring Entity will declare a Bidder ineligible to be awarded a Contract if the performance Security Declaration is to be executed]** starting on the date that we receive a notification from you, the _____ **[Designation of the Procuring Entity]** that our Performance Security Declaration is executed, if we are in breach of any of our performance obligation under the conditions of the Contract,

We understand this Performance Security Declaration shall expire after 60 days of completion of our all obligations under the Contract including Defect Liability, warranty/ Guarantee, operation, maintenance, etc. in accordance with the conditions of the Contract.

Signed: _____

[insert signature of person whose name and capacity are shown]

In the capacity of: _____

[insert legal capacity of person signing the Performance Security Declaration]

Name: _____

[insert complete name of person signing the Declaration]

Duly authorized to sign the Contract for and on behalf of: _____

[insert complete name and address of the Bidder]

Dated on _____ day of _____, _____ **[insert date of signing]**

Corporate Seal _____

Contract Agreement Works

THIS AGREEMENT made this.....day of.....2017., between Government of Rajasthan, represented by the Chief Executive Officer, JSCL (Jaipur Smart City Limited) JMC Building,Pt Deendayal Upadhyay Bhawan LalKothi,Tonk Road,Jaipur-302016 Phone No. 0414-2741346/2741347 ,E-Mail ID: jscljaipur@gmail.com

(hereinafter “the Employer”), of the one part and M/S (hereinafter “the Contractor”), of the other part:

WHEREAS the *Employer* desires that the Works known as Work 1: Development of Smart Roads (Package 1: Civil Works) in ABD Area of Jaipur should be executed by the Contractor, and has accepted a Bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein for three years in conformity with the provisions of the contract in all respect.

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - a) Notice to Proceed
 - b) the Letter of Acceptance;
 - c) the Bid
 - d) the Addenda and Corrigendum
 - e) the Special Conditions
 - f) the General Conditions
 - g) the Specifications;
 - h) the Drawings;
 - i) Instructions to Bidders and Notice Inviting Bids
 - j) the Priced Bill of Quantities and
 - k) The Schedule of Supplementary information,
3. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of India on the day, month and year indicated above.

Signed by

Signed by

Volume-I Section-VI C: Contract Forms

RFP for Integrated City Operation Centre in existing JSCL building

Chief Executive Officer
Jaipur Smart City Limited
for and on behalf of the Employer

for and on behalf the Contractor

Witness, Name, Signature, Address
Signed by

Witness, Name, Signature, Address
Signed by

Section VII: Tender Drawings

Index

S. No.	Title	Page No.
Architectural Drawings		
1	Existing Plan of Smart City Office	1
2	Proposed Demolition Plan	2
3	Proposed Plan	3
4	Proposed Reflected Ceiling Plan	4
5	Proposed Flooring Plan	5
6	Proposed Elevations of Video Conference Room	6
7	Proposed Detail A & B of Video Conference Room	7
Instrumentation Drawings		
1	Proposed Instrumentation Plan	8
Electrical Drawings		
1	Proposed Electrical Layout	9
2	Proposed Plan for Electrical Fixtures	10
3	Proposed plan for Air Conditioning	11
Fire and Gas Drawings		
1	Proposed plan for Fire Detection System	12
2	Proposed Plan for Novac based Fire Suppression System	13
3	Proposed plan for portable Fire Extinguisher	14

Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building


DECLARATION

1. THE DRAWING IS THE SOLE PROPERTY OF THE JAIPOUR SMART CITY LIMITED (JSCCL) AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF JSCCL. THE DRAWING IS FOR INFORMATION ONLY AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF JSCCL. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF JSCCL.

NOTES

1. DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. DIMENSIONS NOT BE REALIZED FROM DRAWING.






KEY PLAN

DRAWING ISSUED		NO. OF COPIES
DATE	BY	

REV. DETAILS		REV. BY
DATE	NO.	

DRAWN BY	CHECKED BY	SECTOR
MINA KHAN	DR. S. P. BISWAS	INFORMATION COMMUNICATION TECHNOLOGY

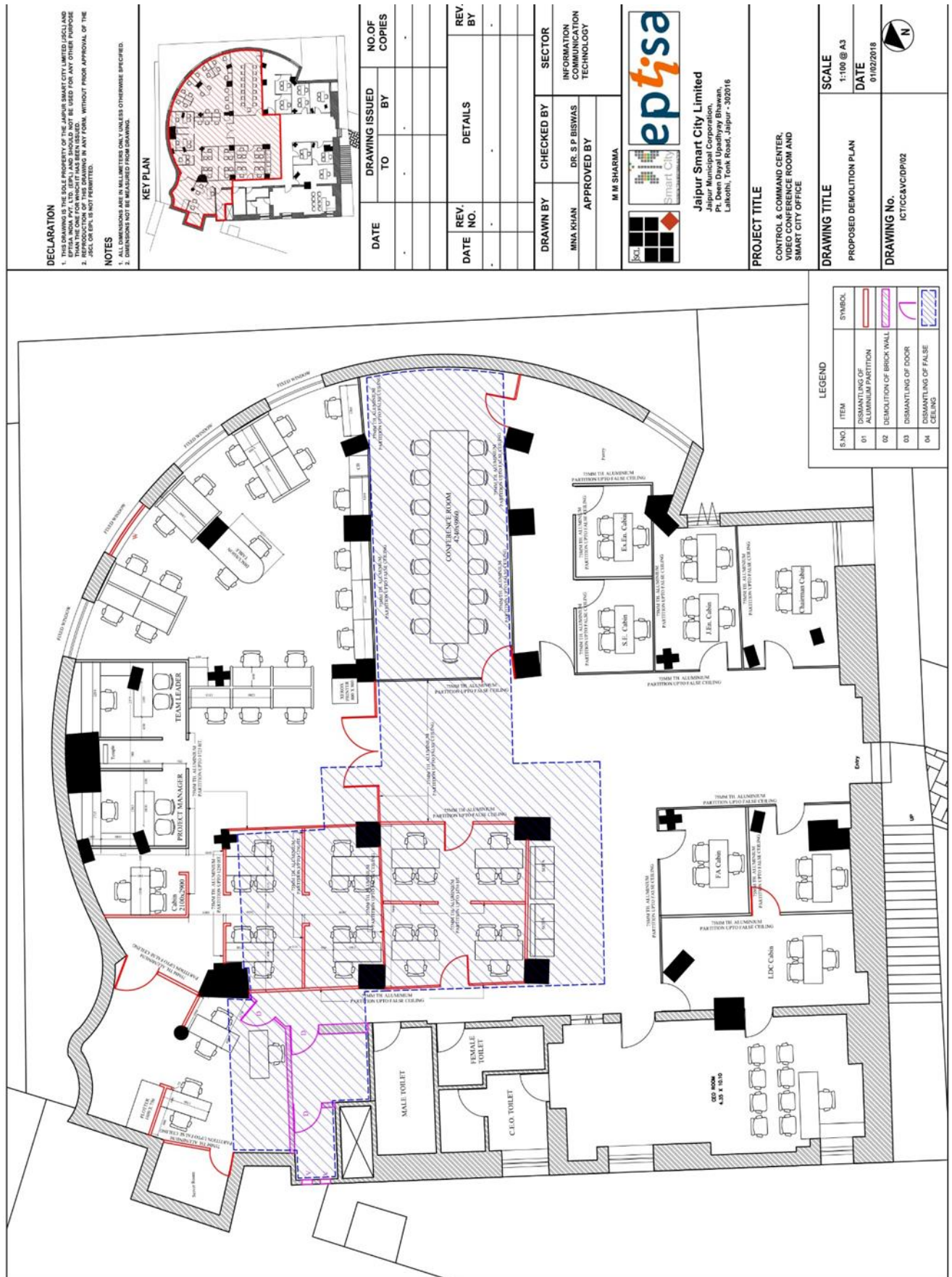
APPROVED BY	
M. M. SHARMA	

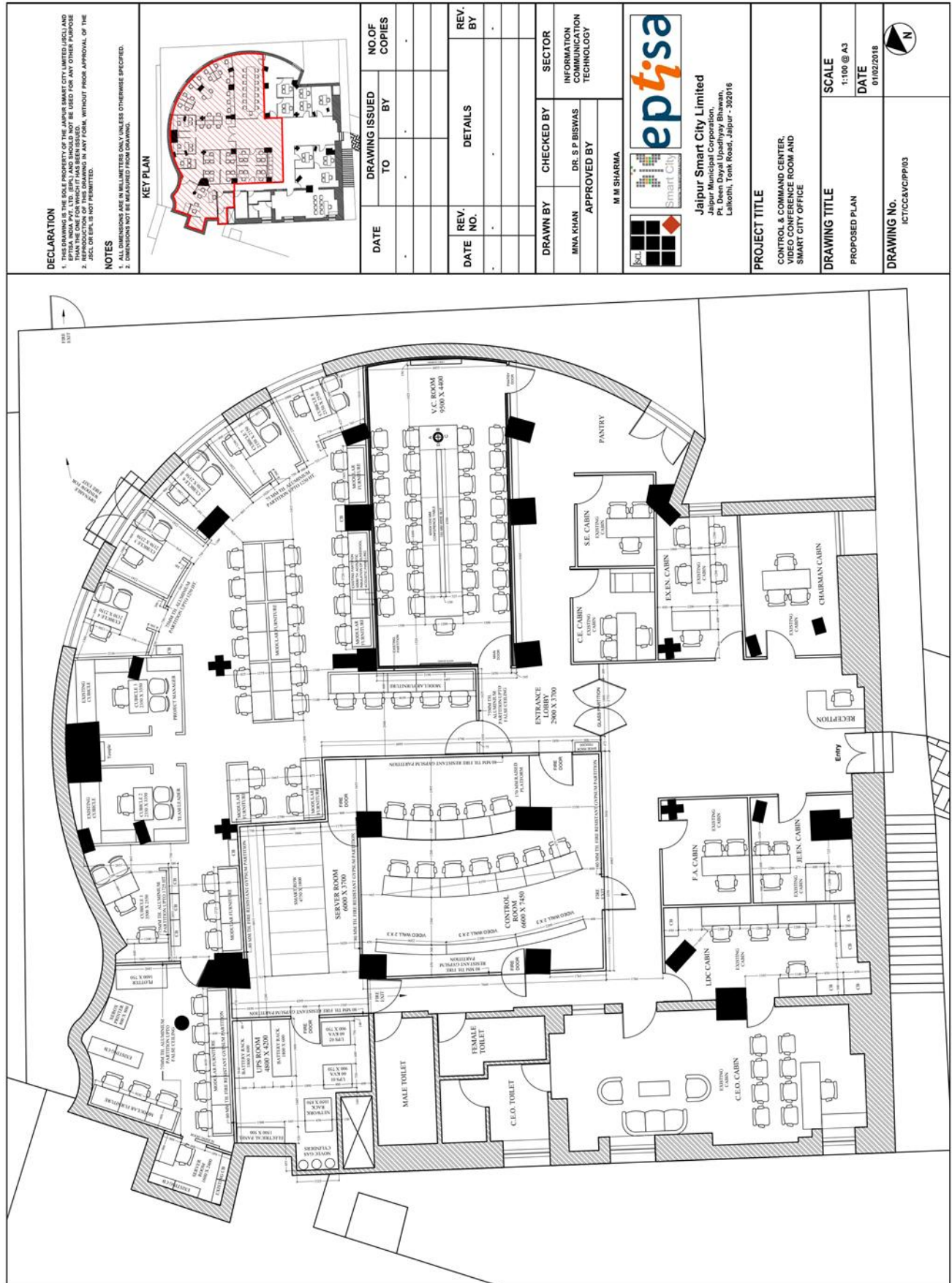
Jaipur Smart City Limited
 Plot No. 1, Sector 1, Jaipur Smart City,
 P. L. Deen Deyal Upadhyay Bhawan,
 Lal Kotah, Tonk Road, Jaipur - 302016



Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



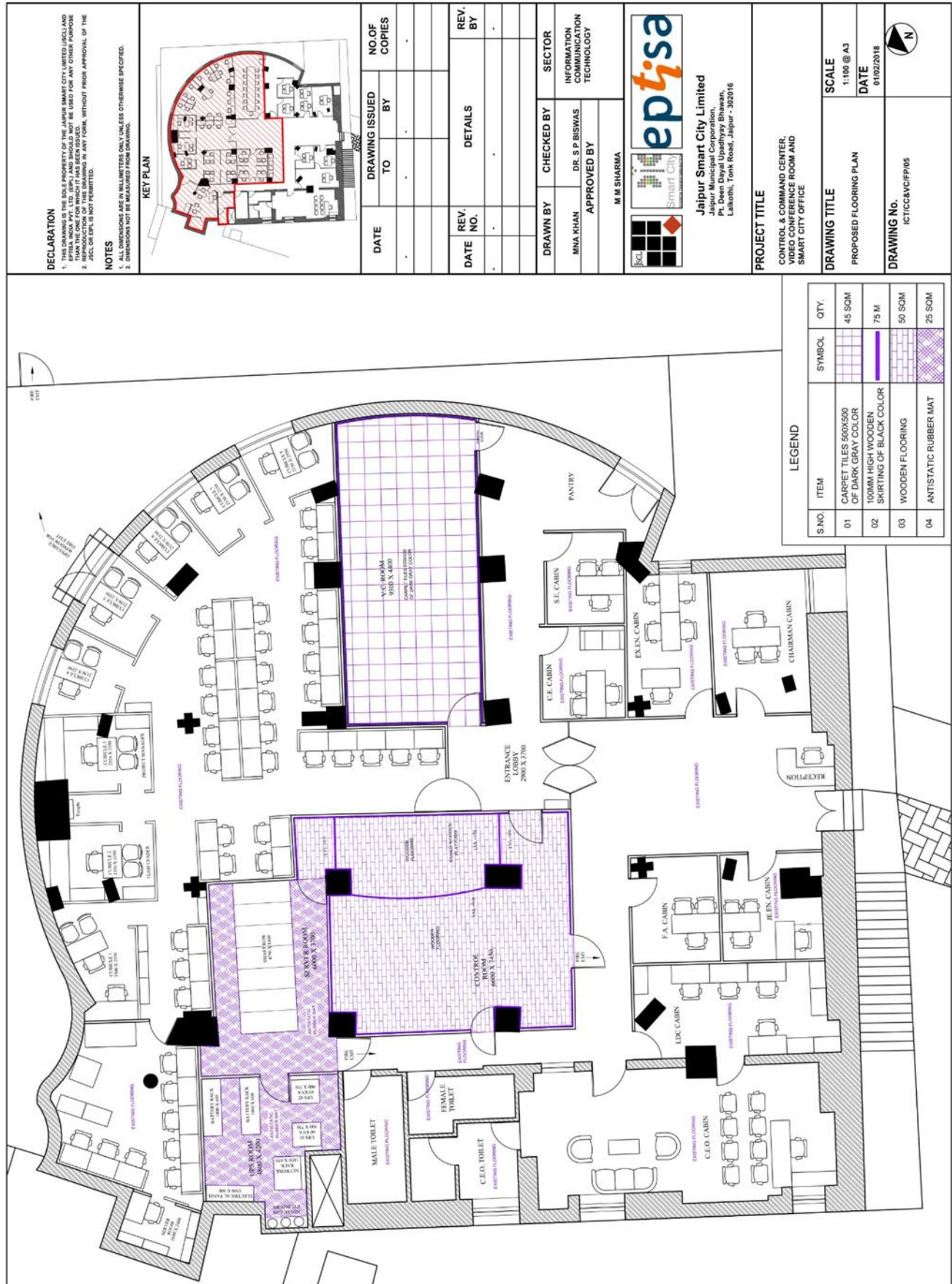
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RFP for Integrated City Operation Centre in existing JSCL building



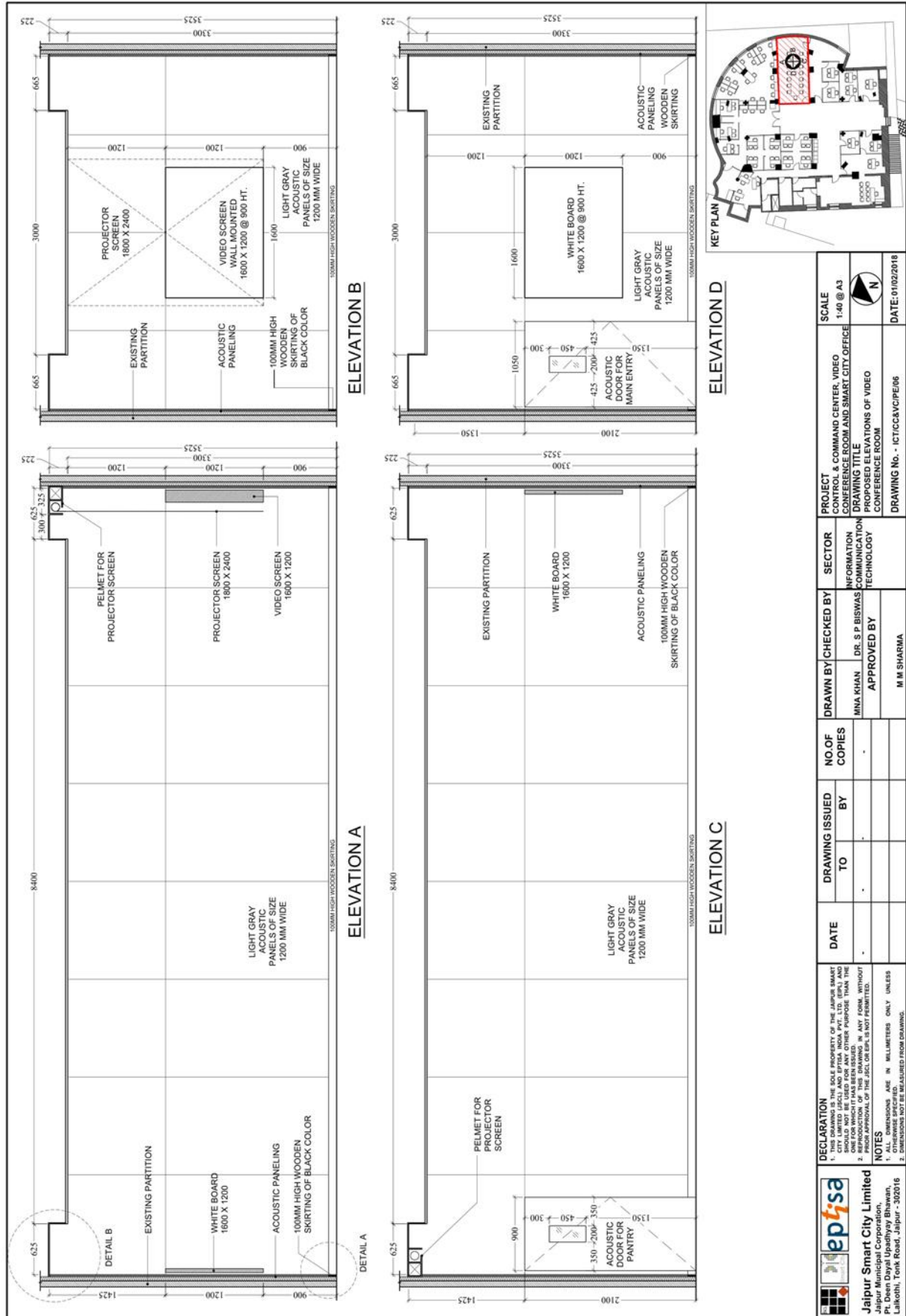
Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



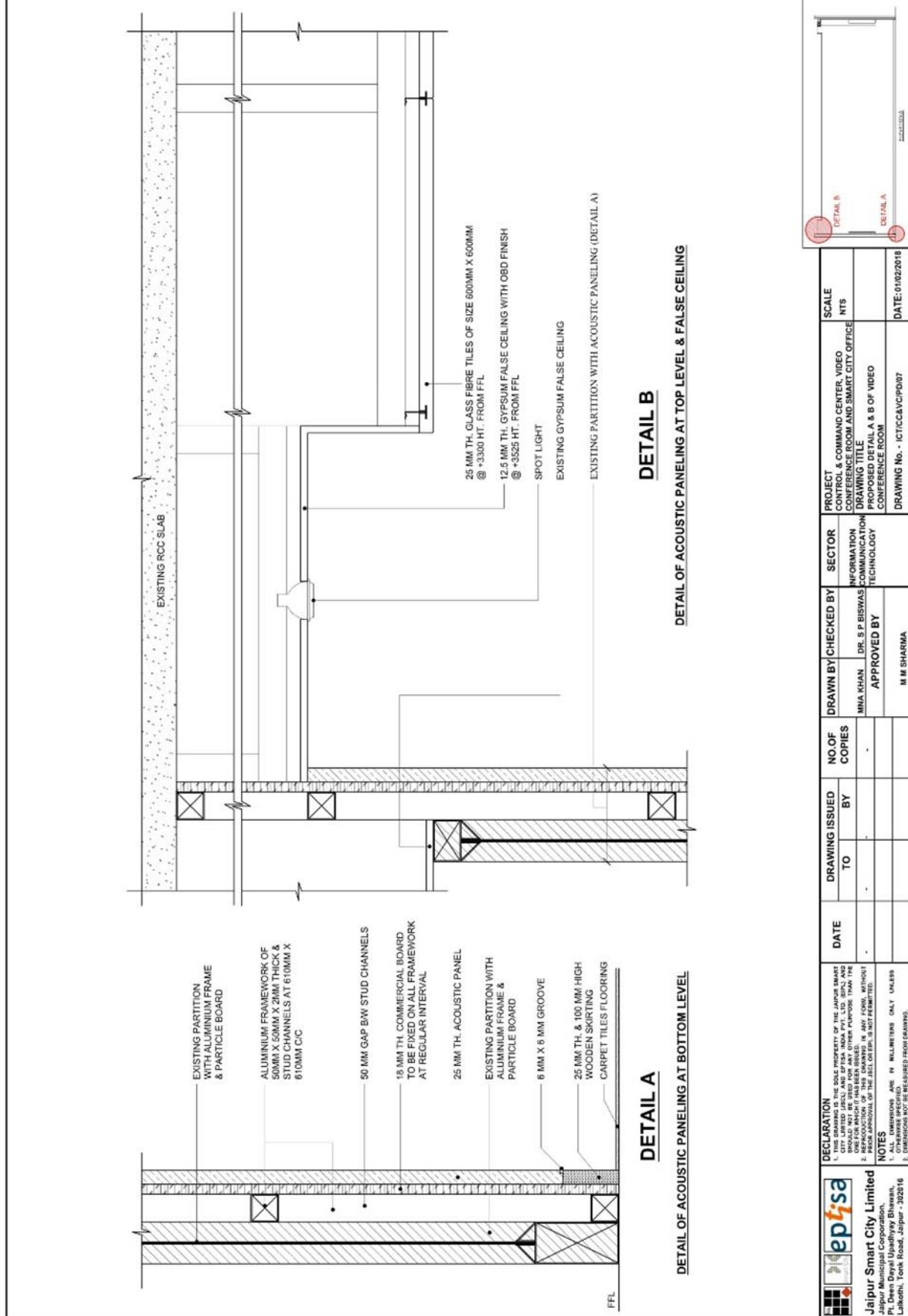
Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



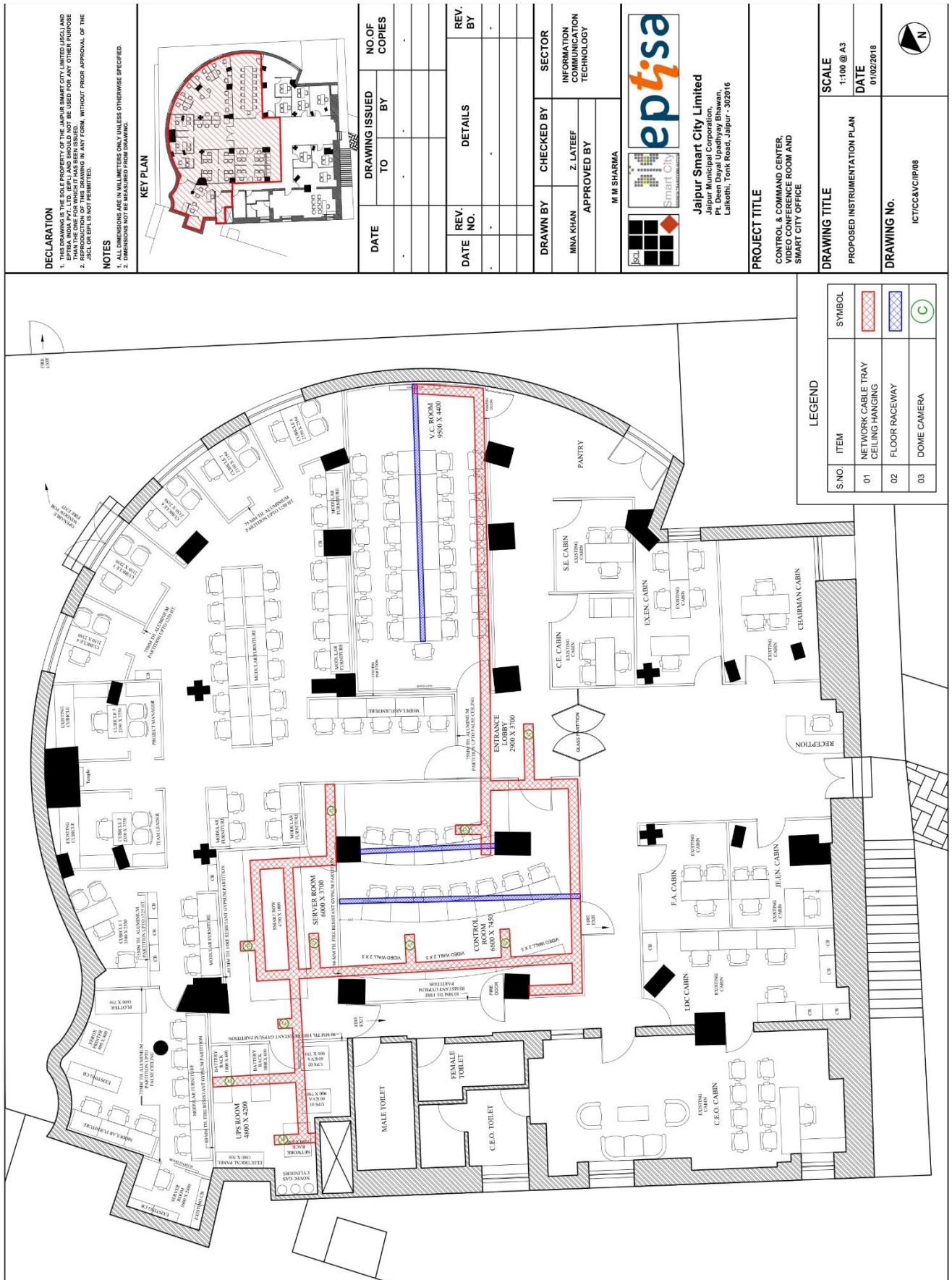
Section-VII: Tender Drawings
 RFP for Integrated City Operation Centre in existing JSCL building



	Jaipur Smart City Limited Jaipur Municipal Corporation, P. Deen Dayal Upadhyay Bhawan, Banihota, Tonk Road, Jaipur - 302016	DECLARATION 1. THIS DRAWING IS THE SOLE PROPERTY OF THE JAIPOUR SMART CITY LIMITED AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE THAN THE ONE FOR WHICH IT HAS BEEN ISSUED. IN ANY FORM, WITHOUT THE PRIOR APPROVAL OF THE JAIPOUR SMART CITY LIMITED, ITS REPRODUCTION OR USE IS NOT PERMITTED. 2. DIMENSIONS ARE IN MILLIMETERS ONLY UNLESS OTHERWISE SPECIFIED. NOTES 1. DIMENSIONS ARE IN MILLIMETERS ONLY UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS NOT BE RECALCULATED FROM DRAWING.	DATE	DRAWING ISSUED	NO. OF COPIES	DRAWN BY/CHECKED BY	SECTOR	PROJECT	SCALE
				TO	BY	MNA KHAN	DR. S. P. BISWAS	INFORMATION COMMUNICATION TECHNOLOGY	CONFERENCE ROOM AND SMART CITY OFFICE
						APPROVED BY		DRAWING TITLE	
						M. M. SHARMA		PROPOSED ELEVATIONS OF VIDEO CONFERENCE ROOM	
								DRAWING No. - ICTCCCKVC/PE06	DATE: 01/02/2018

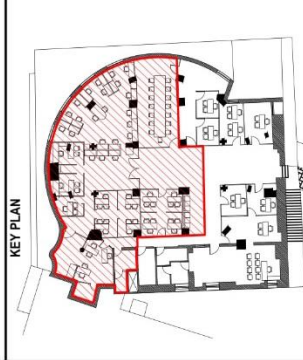


Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



DECLARATION
 I, THE ARCHITECT, HEREBY CERTIFY THAT THE DRAWINGS, SPECIFICATIONS, AND CONDITIONS OF CONTRACT ARE COMPLETE AND CORRECT AND THAT I AM NOT PROVIDING ANY OTHER INFORMATION THAT THE OWNER HAS NOT BEEN ADVISED OF.
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M. M. SHARMA		

Smart City Limited
 Jaipur Municipal Corporation,
 Plot No. 10, Sector 10,
 Lalokohi, Tonk Road, Jaipur - 302016

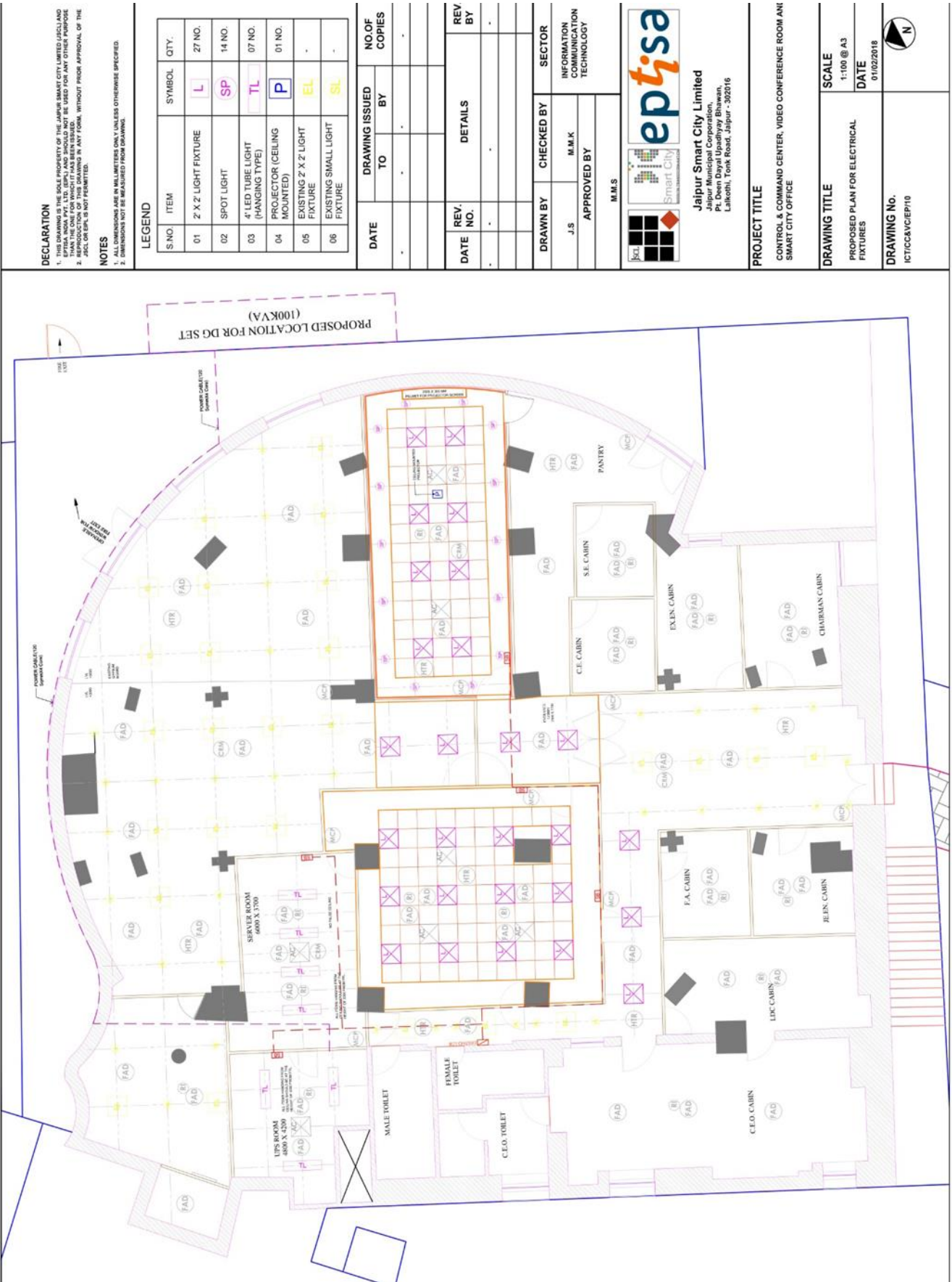
PROJECT TITLE
 CONTROL & COMMAND CENTER,
 SERVER ROOM AND
 SMART CITY OFFICE

DRAWING TITLE	SCALE
PROPOSED INSTRUMENTATION PLAN	1:100 @ A3
DRAWING No.	DATE
ICTCC/VC/PI/08	01/02/2018

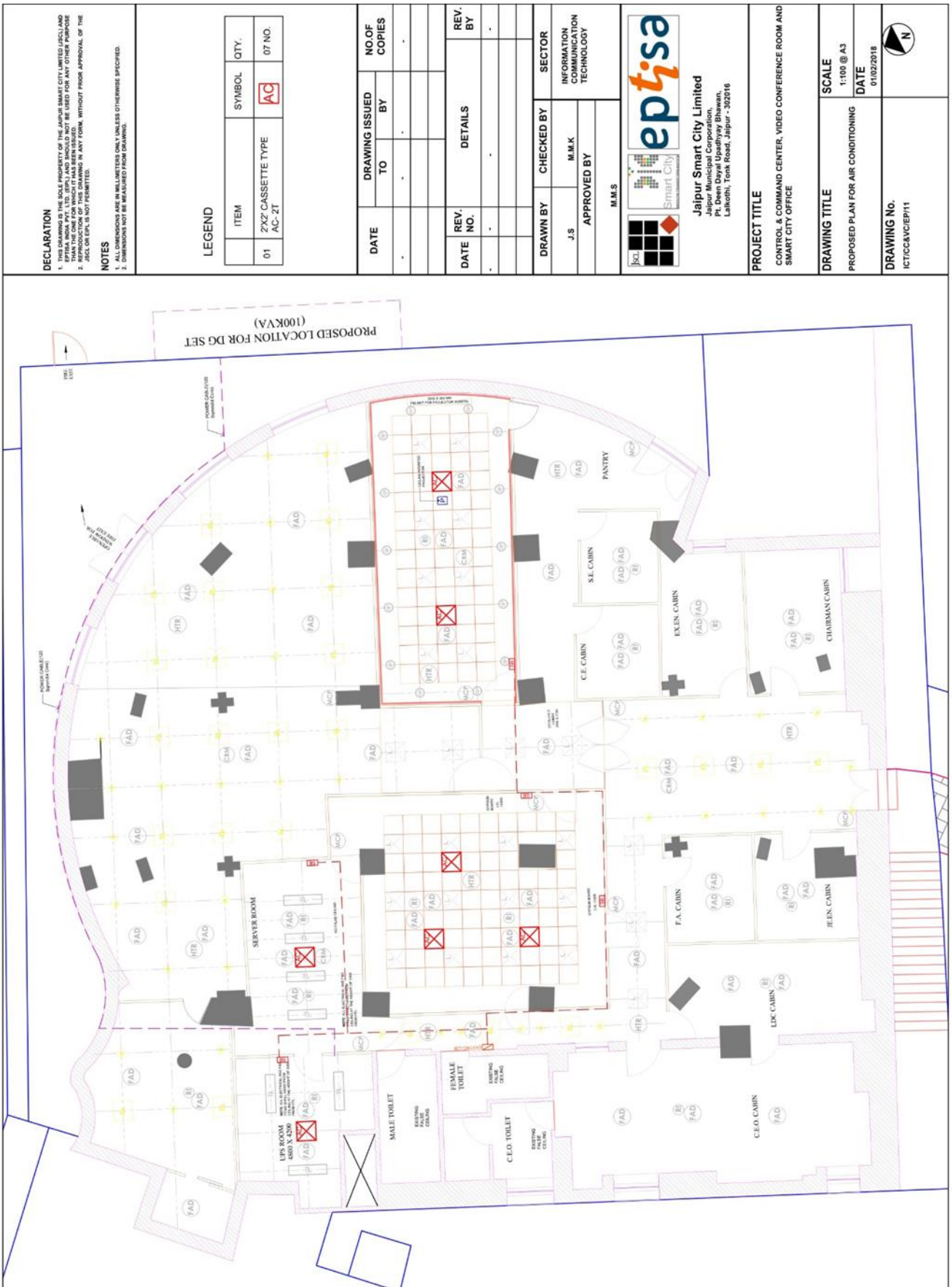
LEGEND

S.NO.	ITEM	SYMBOL
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02	FLOOR RACEWAY	
03	DOME CAMERA	

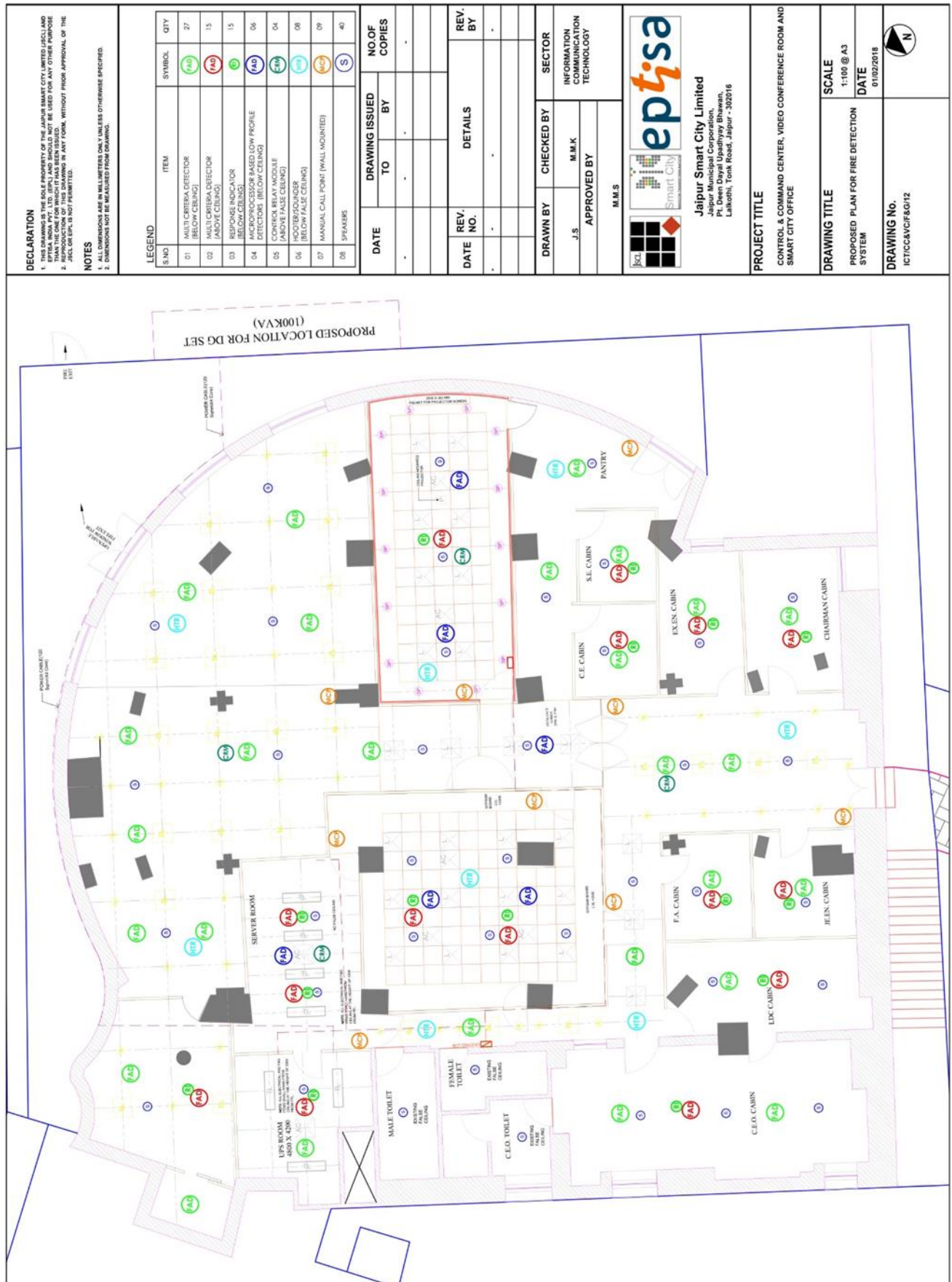
Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



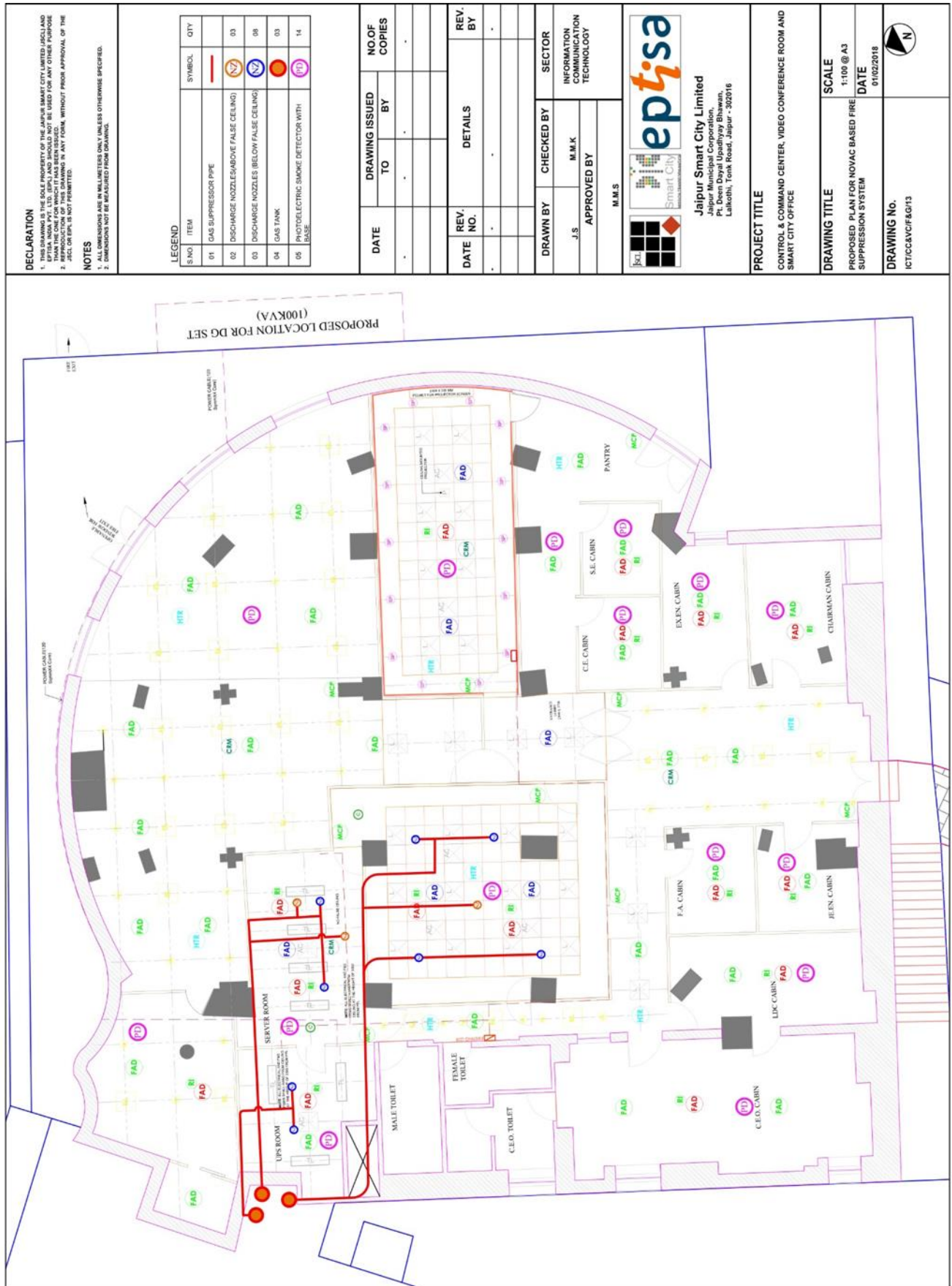
Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



Section-VII: Tender Drawings
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Section-VII: Tender Drawings
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S. NO.	ITEM	SYMBOL	CITY
01	GAS SUPPRESSOR PIPE	—	
02	DISCHARGE NOZZLES/ABOVE FALSE CEILING	(N)	03
03	DISCHARGE NOZZLES (BELOW FALSE CEILING)	(N)	09
04	GAS TANK	(O)	03
05	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	(D)	14

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APPROVED BY

M.M.S



Jaipur Smart City Limited
 Plot No. 10, Sector 10, Smart City, Jaipur
 P.O. Deen Dayal Upadhyay Bhawan,
 Lal Kotah, Tonk Road, Jaipur - 302016

PROJECT TITLE
 CONTROL & COMMAND CENTER, VIDEO CONFERENCE ROOM AND SMART CITY OFFICE

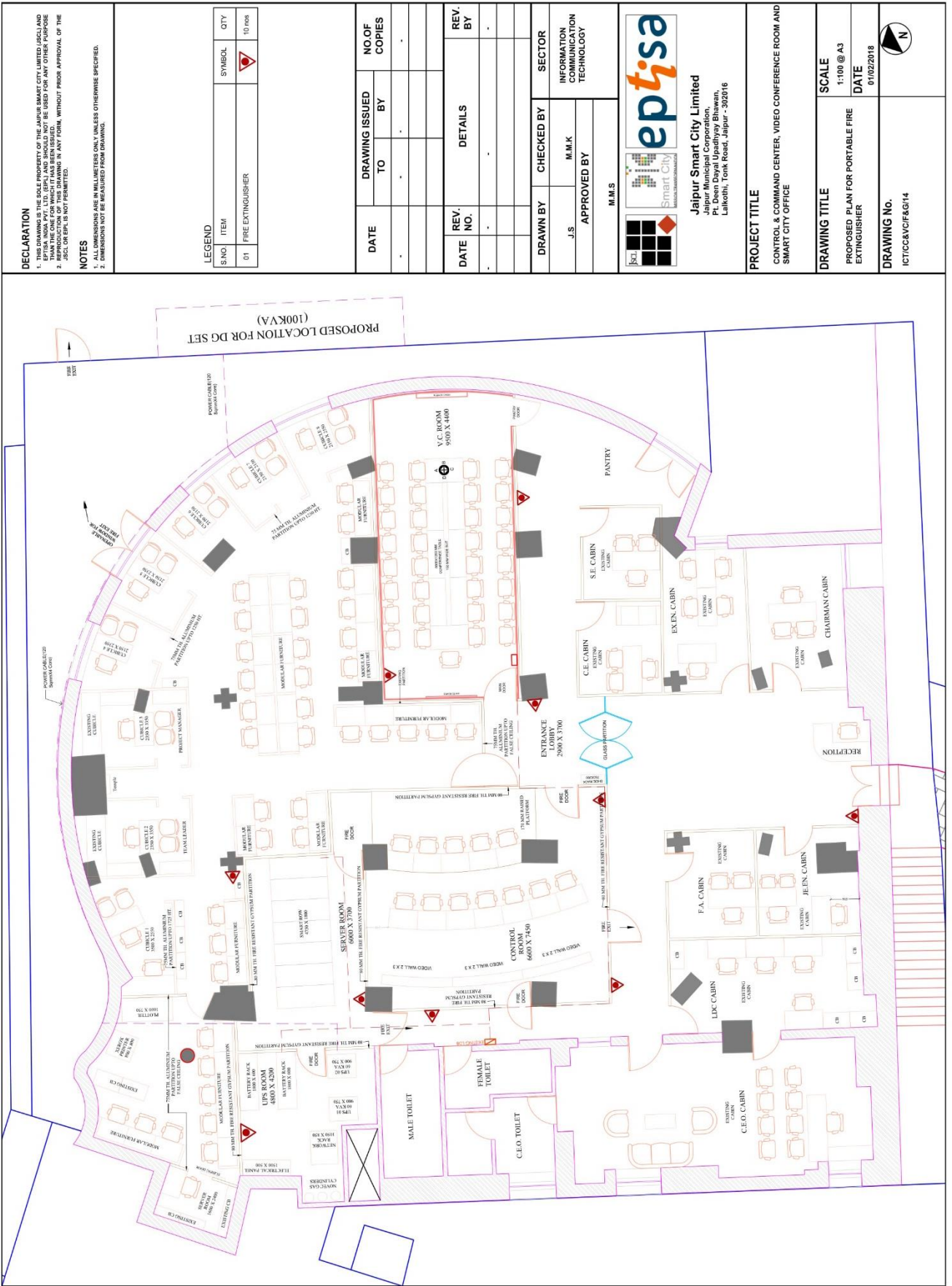
DRAWING TITLE
 PROPOSED PLAN FOR NOVIAC BASED FIRE SUPPRESSION SYSTEM

SCALE
 1:100 @ A3

DATE
 07/02/2018

DRAWING No.
 ICT/C&V/CF&G/13

Section-VII: Tender Drawings
RFP for Integrated City Operation Centre in existing JSCL building



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LEGEND

S.NO.	ITEM	SYMBOL	QTY
01	FIRE EXTINGUISHER		10 nos.

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	TO	BY	

DATE	REV. NO.	DETAILS	REV. BY

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epTisa
 Smart City
 Jaipur Smart City Limited
 Jaipur Municipal Corporation,
 P-1, Durgam Udaygadh Bldg.,
 Lohawat, Fort Road, Jaipur-302016

PROJECT TITLE
 CONTROL & COMMAND CENTER, VIDEO CONFERENCE ROOM AND SMART CITY OFFICE

DRAWING TITLE	SCALE
PROPOSED PLAN FOR PORTABLE FIRE EXTINGUISHER	1:100 @ A3

DRAWING No.	DATE
ICT/CC&VCF&G/14	01/02/2018

Standard EMP for Sub-Projects of Smart City

The Environmental Management Plan (EMP) is a site specific plan developed to ensure that the project is implemented in an environmental sustainable manner where all contractors and subcontractors, understand the potential environmental risks arising from the proposed project and take appropriate actions to properly manage that risk. EMP also ensures the project implementation is carried out in accordance with the design by taking appropriate mitigative actions to reduce or avoid adverse environmental impacts during its life cycle.

The plan outlines existing and potential problems that may adversely impact the environment and recommends corrective measures where required. Also, the plan outlines roles and responsibility of project proponent, supervision consultant and contractors who are charged with the responsibility to manage the smart city project of Jaipur. The EMP is proactive in nature and shall be upgraded if new facilities or modifications of existing facilities, with environment concerns, come up at a later stage.

The EMP is generally:

- Prepared in accordance with rules and requirements of the MoEFCC and the State Pollution Control Board;
- To ensure that the component of facility are operated in accordance with the design;
- Process that confirms proper operation through supervision and monitoring;
- System that addresses public inconvenience during construction and operation of the facility; and

Plan that ensure remedial measures are implemented immediately.

EMP includes four major elements:

Commitment & Policy: Jaipur Smart City Limited will strive to provide and implement the Environmental Management Plan that incorporates all social and environmental issues related to project.

Planning: This includes identification of environmental impacts, legal requirements and setting environmental objectives.

Implementation: This comprises of resources available to the developers, accountability of contractor, and training of operational staff associated with environmental control facilities and documentation of measures to be taken.

Measurement & Evaluation: This includes monitoring, corrective actions and record keeping.

The Environmental Management Plan (EMP) needs to be implemented right from the conception and should continue till the end. The Plan can be divided into three phases - (a) Design or pre-construction phase (b) Construction phase and (c) Operational phase.

The Environment Management Plan of Pre Construction, Construction and Operation phase is given in **Table -1**.

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Table-1

Attributes	Mitigation Measures	Location	Time Frame	Cost	Agency Responsible for Implementation	Agency Responsible for Monitoring
A: Pre Construction Phase						
Finalisation of sub project	<ul style="list-style-type: none"> • Consult with local people to finalize the sub-project especially to avoid any social obligation related to project. • Avoid excessive cut and fill and sub-project should follow natural topography of the area. • In flood prone areas, refer to hydrological data to finalize the provision for culvert drainage structures. • Avoid the requirement of forestland for sub-project. In case unavoidable, minimize it to extent possible by exploring alternative options. • In case, requirement of forestland is unavoidable, determine the legal status of forestland and initiate actions to seek permits for diversion of forestland for non-forest uses. • Forest clearance is to be obtained in accordance with the provisions of State Forest Act and MoEFCC, and all conditions related with the clearance has to be implemented. • In case sub-project has trees, which are known to be nesting/breeding places for migratory birds, contact the wildlife division of Department of Forest for seeking permits and details 	Throughout project area.	Prior to commencing any construction works.	Part of Project Cost.	Project Implementing Unit (PIU).	Supervision Consultant (SC).

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RFP for Integrated City Operation Centre in existing JSCL building

	<p>about non-breeding seasons. In any case, no tree shall be cut in such location and construction works are to be strictly scheduled for non-breeding/nesting season and all permit conditions are to be complied.</p> <ul style="list-style-type: none"> • Avoid or minimize tree felling, acquisition of agricultural land, shifting of shrines/temples, disturbance to community ponds, community resources, burial grounds, etc. to the extent possible through evolving alternate location options. 					
Land Acquisition	<p>Land acquisition, compensation packages, resettlement and rehabilitation, poverty alleviation programs for affected people and all other related issues are addressed in Social Impacts and Resettlement & Rehabilitation report if land is acquired for the sub-project.</p>	Throughout project area.	Pre-Construction phase.	Encumbrance-free land to be made available by State Government.	State Government/PIU	SC
B: Construction Phase						
Land Clearing Operation	<ul style="list-style-type: none"> • The sub-project area requiring clearing shall be clearly demarcated on ground. • During land clearing operations, topsoil shall be collected, preserved, and reused as a base for the development of unused/ barren areas near sub-project. • Trees falling within sub-project area and other vegetative cover are to be removed. 	Throughout project area.	Pre-Construction Phase.	Encumbrance-free land to be made available by State Government. Relocation of utilities are to be undertaken by respective departments	State Government/PIU	SC

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RFP for Integrated City Operation Centre in existing JSCL building

	<ul style="list-style-type: none"> • Small temples, shrines if any is within the sub-project, the same may be shifted to adjacent areas in consultation with local community leaders. • During clearing operations, any treasure trove, slabs with epigraphical evidence or edicts, sculptural or any material found and appear to have historical importance, it should be brought to the notice of Department of Archaeology, and instructions of this Department must be followed. • All public utilities like power transmission cables, telephone cables, water/sewerage lines, drains, tube wells etc. falling within sub-project area shall be inventoried, and arrange for relocation /shifting to adjacent areas in consultation with the respective agencies/authorities. • Establish and maintain interaction with local community to ensure that no social resentment sets in due to operations. 			and costs are to be reimbursed		
Establishment of temporary office and storage area	<ul style="list-style-type: none"> • The temporary office and storage area for construction works shall be located away from human settlement areas (minimum 500 m) and forest areas (minimum 1 km). • The office and storage areas shall preferably be located on barren/waste lands and conversion of agricultural/cultivable lands for office 	As determined by contractor under approval of PIU and SC	Pre-construction and Construction Phase	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU.	SC

Environment Management Plan – Standard Format

RFP for Integrated City Operation Centre in existing JSCL building

	<p>and storage areas shall not be allowed under any circumstances.</p> <ul style="list-style-type: none"> • All fuel oil/lubricants loading, unloading and storage areas shall be paved (impermeable), and have separate storm water collection system with facility for separation of oil/lubricants prior to discharge. • The temporary office and storage area shall be provided with adequate water supply, sanitation, septic tank/soak pit of adequate capacity so that it functions properly for the entire duration of its use. • After completion of construction works, the site shall be restored to its previous state by undertaking clean up operations. 					
<p>Construction Camp Sites.</p>	<ul style="list-style-type: none"> • The construction campsites shall be located away from any local human settlement areas and preferably located on lands, which are barren/waste lands. • The camps shall be located, at a minimum, 5 km from forest areas to deter trespassing of construction labour. • The campsites shall be provided with adequate water supply, sanitation and all requisite infrastructure facilities. This would minimize dependence on outside resources, presently being used by local populace and minimize undesirable social friction thereof. 	<p>As determined by contractor under approval of PIU and SC</p>	<p>Pre-construction and Construction Phase</p>	<p>To be included in contractor's cost.</p>	<p>All facilities are to be planned and implemented by contractor under approval by PIU / PIC</p>	<p>SC</p>

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RFP for Integrated City Operation Centre in existing JSCL building

	<ul style="list-style-type: none"> • The camps shall have septic tank/soak pit of adequate capacity so that it can function properly for the entire duration of its use. • Construction camps shall be provided with kerosene/LPG to avoid dependence on firewood for cooking to the extent possible. • After completion of construction works, location of campsites shall be restored to its previous state by undertaking cleanup operations. 					
Mobilization of construction materials.	<ul style="list-style-type: none"> • Stone aggregates shall be sourced only from licensed existing quarries. • A list of such existing quarries is available from responsible department/ authority for mining related works in each state. In case new quarries are to be opened, quarry license/permits are to be obtained from this department/authority. • In case, only stone crushing plants are to be installed near work sites, required permits are to be obtained and all conditions of permits are to be complied. • Ensure stone quarries and crushing units have pollution control system; occupational safety procedures/practices in place and regular inspection shall be carried to ensure compliance. This shall be a pre-condition for sourcing of materials from quarries/crushing plants. 	As determined by contractor under approval of PIU.	Pre-construction and Construction Phase.	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU / SC	SC

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RFP for Integrated City Operation Centre in existing JSCL building

	<ul style="list-style-type: none">• Earth borrow areas identified during DPR stage shall be revisited to assess its environmental sensitivity and ensure it is not an ecologically sensitive areas. Permits are to be obtained from authorities and all permit conditions are complied.• The borrow areas are to be demarcated with signboards and operational areas are to be access controlled.• Topsoil from borrow areas (first 30cm) are to be preserved and used for redevelopment of borrow areas.• The borrow areas as an option may be converted into ponds wherever possible, which can be used for storage of rainwater.• Conversion of agricultural lands for borrowing earth is to be discouraged to the use possible unless warranted by local conditions. In such cases, written consent shall be obtained from the landowners.• Water for construction works shall NOT be drawn from sources, which serve routine needs of local people.• In case water is sourced from existing private tube wells, well owner shall be informed about the quantity and duration for which water draws will be carried out and possible implications. Written consent for use of groundwater shall be obtained. <p>In case new tube wells are to be</p>					
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	<p>constructed, required permits are to be obtained from the State Ground Water Department and permit conditions, if any are to be complied.</p> <ul style="list-style-type: none"> • In any case, care shall be taken not to source all requirements from one single source and no two sources (in case of tube wells) shall be less than 500 m from each other. 					
<p>Transportation of construction materials.</p>	<ul style="list-style-type: none"> • Existing tracks/roads are to be used for hauling of materials to extent possible. • The alignment of haul roads (in case of new ones) shall be finalized to avoid agricultural lands to the extent possible. In unavoidable circumstances, suitable compensation shall be paid to people, whose land will be temporarily acquired for the duration of operations. The compensation shall cover for loss of income for the duration of acquisition and land restoration. •Prior to alignment of new haul roads, topsoil shall be preserved or at least shall be used for any other useful purposes. •Dust suppression along transportation links is to be ensured by deploying water tankers with sprinkling system are to be deployed along haul roads. 	<p>As determined by contractor under approval of PIU.</p>	<p>Pre-construction and Construction Phase.</p>	<p>To be included in contractor's cost.</p>	<p>All facilities are to be planned and implemented by contractor under approval by PIU / SC</p>	<p>SC</p>

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	<p>The vehicles deployed for material transportation shall be spillage proof to avoid or minimize the spillage of the material during transportation.</p> <ul style="list-style-type: none"> •Transportation links are to be inspected daily to clear accidental spillage, if any. <p>Precaution shall be taken to avoid inconvenience to the local community due to movement of materials.</p>					
Diversion of traffic.	<ul style="list-style-type: none"> • Frame appropriate traffic diversion schemes wherever required during construction. • The traffic diversion signs should be bold and clearly visible particularly at night. • Diversion schemes are required to ensure smooth traffic flow, minimize accidents to road users during construction works. 	As determined by contractor under approval of PIU.	Pre-construction and Construction Phase.	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU / SC	SC
Drainage Structures	<p>In case of road construction will also require construction of several cross drainage structures, across streams/rivers flowing across the road.</p> <ul style="list-style-type: none"> • Refer to hydrological studies to ensure that construction of drainage structures is not likely to alter drainage pattern, and discharge capacities of drainage structures are designed to facilitate smooth passage of water and heading up or flooding is avoided even in flood season. 	At all locations of CD structures along the rural roads	Construction Phase.	To be included in contractor's cost.	The planning, and construction/upgradation of existing/new cross drainage structures roads are responsibilities of contractor under approval by PIU.	SC

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	<ul style="list-style-type: none"> • Schedule the construction works to dry season so that impacts on water quality of stream/river is minimise or avoided. • Precaution shall be exercised to prevent oil/lubricant/ hydrocarbon contamination of channel bed during construction works. Spillage, if any, shall be immediately cleared with utmost caution to leave no traces. • Ensure all construction wastes are removed from work site and stream /river beds are to be cleaned up (at least 50 m on both upstream and downstream sides of water courses) after completion of construction but prior to onset of monsoon. 					
Tree Planting	<ul style="list-style-type: none"> • Tree planting operations shall be commenced immediately after the construction work. • The tree plantation shall be undertaken as per permit conditions issued by the Department of Forests, prior to tree felling. • The species shall be suitable for local climate and available. The concerned DFO can be consulted for selection of species and technical guidance, if required. • Proper care shall be taken to increase survival rate of saplings like regular watering, pruning, provision of tree guards, manure for better nourishment, etc. including timely 	The area allocated for tree plantation and or land provided by forest department.	Construction Phase.	To be included in contractor's cost.	The tree plantation work can be entrusted to forest department under the supervision of PIU.	SC

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	replacement of perished saplings.					
Equipment/ vehicles deployed for Construction works.	<ul style="list-style-type: none"> • All diesels run equipment/vehicles/ deployed for construction activities shall be regularly maintained for smooth operation, a measure contributing to air quality and noise. • Vehicles/equipment shall be periodically subjected for emission tests and shall have valid POLLUTION UNDER CONTROL certificates. Revalidation of certificates shall be done in every 3 months. • All vehicles deployed for material movement shall be spill proof to the extent possible. In any case, all material movement routes shall be inspected daily twice to clear off any accidental spills. 	As determined by contractor.	Construction Phase.	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU.	SC
Hot Mix Plants and Laying of bitumen.	<ul style="list-style-type: none"> • Hot mix plants shall be at least 500 m away from human settlements and preferably located on leeward side of most dominant wind direction. • Consent/permits to establish and operate are to be obtained from State Pollution Control Board and all permit conditions are to be implemented/complied. • The hot mix plants shall be set up on barren/waste lands and conversion of agricultural/cultivable lands for this purpose shall not be allowed under any circumstances. • All operational areas like storage, 	As determined by contractor under approval of PIU.	Construction Phase.	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU.	SC

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	<p>handling, loading, unloading areas shall be paved, and have separate storm water collection system with facility for separation of oil/lubricants prior to discharge.</p> <ul style="list-style-type: none"> • The storm water from storage area shall not be directly discharged into any, nearby water courses/drains. • The hot mix plants shall be provided with adequate water supply, sanitation, septic tank/soak pit of adequate capacity so that it functions properly for the entire duration of its use. • After completion of construction works, the site shall be restored to its previous state by undertaking cleanup operations. • Hot mix plants shall have required measures for control of dust, air, and noise pollution as per regulatory limits of State Pollution Control Board measures. 					
<p>Clean up of construction work Sites and Disposal of waste.</p>	<ul style="list-style-type: none"> • All operational areas under road construction works like work sites, office/storage area, and work force camps shall be cleaned up and restored to its previous state soon after operations are complete. • All construction waste shall be disposed in approved areas. Local district authorities shall be consulted to determine disposal site and implement any conditions imposed 	<p>Throughout project area.</p>	<p>Prior claiming the final payment</p>	<p>To be included in contractor's cost.</p>	<p>Contractor with the approve plan from PIU.</p>	<p>SC</p>

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	while issuing permits.					
Occupational Safety and Health Hazards at Work and camp sites.	<ul style="list-style-type: none"> • All personnel at work sites shall be provided with protective gears like helmets, boots, etc. so that injuries to personnel are avoided or minimized. • Children (less than 18 years) and pregnant women shall not be allowed to work under any circumstances. • No personnel shall be allowed to work at site for more than 10 hours per day (8-hour makes one work shift). • The operational areas shall be access controlled and entry shall be allowed only under authorization. Workforce, likely to be exposed to noise levels beyond regulatory stipulated limits, shall be provided with protective gears like hear plugs etc. and regularly rotated. • Dust suppression measures like sprinkling of water shall be ensured at all operations areas. • The construction camps shall have health care facilities for adults, pregnant women and children. • All construction personnel shall be subjected to routine vaccinations and other preventive/healthcare measures. • The work and campsites shall have suitable facilities for handling any emergency situation like fire, explosion, etc. • All areas intended for storage of 	As determined by contractor.	Construction Phase.	To be included in contractor's cost.	All facilities are to be planned and implemented by contractor under approval by PIU.	SC

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	<p>hazardous materials shall be quarantined and provided with adequate facilities to combat emergency situations. All required permits for storage of inflammable/hazardous materials are to be obtained.</p> <ul style="list-style-type: none"> • The personnel in charge of such areas shall be properly trained, licensed and with sufficient experience. • The construction camps shall have in-house community/common entertainment facilities. Dependence of local entertainment outlets by construction camps should be discouraged/prohibited to the extent possible. 					
<p>Water Pollution from Construction Wastes.</p>	<p>Take all precautionary measures to prevent the wastewater generated during construction from entering into streams, water bodies or the irrigation system. Avoid construction works close to the streams or water bodies during monsoon.</p> <p>All waste arising from the project is to be disposed off in the manner that is acceptable to the State Pollution Control Board or as directed by Environmental Expert of SC.</p> <p>The Environmental Expert of SC will certify that all liquid wastes disposed off from the sites meet the discharge</p>	<p>Throughout the project area.</p>	<p>Construction phase.</p>	<p>To be included in contractor's cost.</p>	<p>Contractor.</p>	<p>SC</p>

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	standards.					
Water Pollution from Fuel and Lubricants.	<p>Ensure that all construction vehicle parking location, fuel/lubricants storage sites, vehicle, machinery and equipment maintenance and refuelling sites will be located at least 500 m from rivers and irrigation canal/ponds. All location and layout plans of such sites will be submitted by the Contractor prior to their establishment and will be approved by the Environmental Expert of SC.</p> <p>Also ensure that all vehicle/machinery and equipment operation, maintenance and refuelling will be carried out in such a fashion that spillage of fuels and lubricants does not contaminate the ground. Oil interceptors will be provided for vehicle parking, wash down and refuelling areas as per the design provided</p> <p>In all, fuel storage and refuelling areas, if located on agricultural land or areas supporting vegetation, the top soil will be stripped, stockpiled and returned after cessation of such storage.</p> <p>Make necessary arrangements for collection, storing and disposal of oily wastes to the pre-identified approved vendors (list to be submitted to SC). All spills and collected petroleum products will be disposed off in accordance with MoEFCC and state</p>	Throughout the project area.	Construction phase.	To be included in contractor's cost.	Contractor.	SC

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	<p>SPCB guidelines. Environmental Expert of SC will certify that all arrangements comply with the guidelines of PCB/ CPCB/ MoEF or any other relevant laws.</p>					
Dust Pollution.	<p>Take every precaution to reduce the level of dust from crushers/hot mix plants, construction sites involving earthwork by sprinkling of water, encapsulation of dust source and by erection of screen/barriers. All the plants will be sited at least 1 km in the downwind direction from the nearest human settlement. Provide necessary certificates to confirm that all crushers used in construction conform to relevant dust emission control legislation. The suspended particulate matter value at a distance of 40m from a unit located in a cluster should be less than 500 g/m³. The pollution monitoring is to be conducted as per the monitoring plan. Alternatively, only crushers licensed by the SPCB shall be used. Required certificates and consents shall be submitted by the Contractor in such a case.</p>	Throughout the project area.	Construction phase.	To be included in contractor's cost.	Contractor.	SC
Emission from Construction Vehicles, Equipment and Machineries	<p>Ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that pollution emission levels comply with the relevant requirements of SPCB.</p>	Throughout the project area.	Construction phase.	To be included in contractor's cost.	Contractor.	SC

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	<p>The Contractor will submit PUC certificates for all vehicles/equipment/machinery used for the project.</p>					
<p>Noise Pollution: Noise from Vehicles, Plants and Equipments</p>	<ul style="list-style-type: none"> • All plants and equipment used in construction shall strictly conform to the MoEF/CPCB noise standards. • All vehicles and equipment used in construction will be fitted with exhaust silencers. • Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective will be replaced. • Limits for construction equipment used in the project such as compactors, rollers, front loaders, concrete mixers, cranes (moveable), vibrators and saws shall not exceed 75 dB (A) (measured at one meter from the edge of equipment in the free field), as specified in the Environment (Protection) rules, 1986. • Maintenance of vehicles, equipment and machinery shall be regular and up to the satisfaction of the Environmental Expert of JP Greens to keep noise levels at the minimum. <p>At the construction sites within 150 m of the nearest habitation, noisy construction work such as crushing, concrete mixing, batching will be</p>	<p>Throughout the project area.</p>	<p>Construction phase.</p>	<p>To be included in contractor's cost.</p>	<p>Contractor.</p>	<p>SC</p>

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	<p>stopped during the night time between 10.00 pm to 6.00 am.</p> <p>No noisy construction activities will be permitted around educational institutes/health centers (silence zones) up to a distance of 100 m from the sensitive receptors i.e., school, health centers and hospitals between 9.00 am to 6.0 pm.</p>					
<p>Personal Safety Measures for Labour</p>	<ul style="list-style-type: none"> • Protective footwear and protective goggles to all workers employed on mixing asphalt materials, cement batching plant, cement, lime mortars, concrete etc. • Welder's protective eye-shields to workers who are engaged in welding works • Protective goggles and clothing to workers engaged in Factories Act, 1948 stone breaking activities and workers will be seated at sufficiently safe intervals • Earplugs to workers exposed to loud noise, and workers working in crushing, compaction, or concrete mixing operation. • Adequate safety measures for workers during handling of materials at site are taken up. • The contractor will comply with all regulations regarding safe scaffolding, ladders, working platforms, gangway, stairwells, excavations, trenches and safe means of entry and egress. <p>The contractor will comply with all the</p>	<p>Throughout the project area.</p>	<p>Construction phase.</p>	<p>To be included in contractor's cost.</p>	<p>Contractor.</p>	<p>SC</p>

Environment Management Plan – Standard Format

RFP for Integrated City Operation Centre in existing JSCL building

	<p>precautions as required for ensuring the safety of the workmen as per the International Labor Organization (ILO) Convention No. 62 as far as those are applicable to this contract.</p> <p>Make sure that during the construction work all relevant provisions of the Factories Act, 1948 and the Building and other Construction Workers (regulation of Employment and Conditions of Services) Act, 1996 are adhered to.</p> <p>Not employ any person below the age of 14 years for any work and no woman will be employed on the work of painting with products containing lead in any form.</p> <p>Also ensure that no paint containing lead or lead products is used except in the form of paste or readymade paint.</p> <p>Provide facemasks for use to the workers when paint is applied in the form of spray or a surface having lead paint dry is rubbed and scrapped.</p> <p>Mark 'hard hat' and 'no smoking' and other 'high risk' areas and enforce non-compliance of use of PPE with zero tolerance.</p>					
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Environment Management Plan – Standard Format

RFP for Integrated City Operation Centre in existing JSCL building

<p>Risk from Electrical Equipment(s)</p>	<p>Take all required precautions to prevent danger from electrical equipment and ensure that -</p> <ul style="list-style-type: none"> • No material will be so stacked or placed as to cause danger or inconvenience to any person or the public. • All necessary fencing and lights will be provided to protect the public in construction zones. <p>All machines to be used in the construction will conform to the relevant Indian Standards (IS) codes, will be free from patent defect, will be kept in good working order, will be regularly inspected and properly maintained as per IS provision and to the satisfaction of the Environmental Expert.</p>	<p>Throughout the project area.</p>	<p>Construction phase.</p>	<p>To be included in contractor's cost.</p>	<p>Contractor.</p>	<p>SC</p>
<p>First Aid</p>	<ul style="list-style-type: none"> • Readily available first aid unit including an adequate supply of sterilized dressing materials and appliances as per the Factories Rules in every work zone • Availability of suitable transport at all times to take injured or sick person(s) to the nearest hospital • Equipment and trained nursing staff at construction camp. 	<p>Workers Camp and construction camps.</p>	<p>Construction phase.</p>	<p>To be included in contractor's cost.</p>	<p>Contractor.</p>	<p>SC</p>

Environment Management Plan – Standard Format

RFP for Integrated City Operation Centre in existing JSCL building

Waste Disposal	Provide garbage bins in the camps and ensure that these are regularly emptied and disposed off / treated in a hygienic manner as per the Comprehensive Solid Waste Management Plan approved by the Environmental Expert. Unless otherwise arranged by local sanitary authority, arrangements for disposal of night soils (human excreta) suitably approved by the local medical health or municipal authorities or as directed by Environmental Expert.	Workers Camp and construction camps.	Construction phase.	To be included in contractor's cost.	Contractor.	SC
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Environmental and Social Management Framework for Smart City Sub-Projects

As per the Government of India and Government of Rajasthan, the project and its subprojects also must be prepared and implemented in full compliance with the national legislation, regulations and standards governing protection and management of the cultural and natural heritage of the country, social development, and environmental management. Specific state and local level standards and regulations also apply based on the project location and nature of its proposed investments and activities (subprojects). The key legislation and Policy applied to this project are further discussed below in Table-1. The contractor is responsible for the implementation of Environmental and Social Framework during work execution.

Table-1

Act/Policy	Year	Objective	Main Stipulations	Applicability to Project	Monitoring Agency
Cultural Heritage Government of India					
Ancient Monuments and Archaeological Sites and Remains Act Amended	1958 2010	Declares certain monuments/sites as being of "national importance". Stipulates conservation of cultural and historical remains found in India.	Monuments are "protected" area. 100m radius is "prohibited" area – no construction or reconstruction. Repairs allowed. 200m radius is "regulated" area (structures can be constructed by archaeological officers with due sanctions from competent authority). Protection, maintenance and conservation managed by Archaeological Survey of India (ASI)	Yes, as appropriate. Approximately 46 monuments/sites are protected monuments in Jaipur.	Ministry of Culture; with ASI/ Supervision Consultant.
Ancient Monuments Protection Act	1904	Gives central government the authority to protect	Specifies agreements to be made between Gol and monument/site	Possibly, if any subproject supports privately owned	Ministry of Culture/ Supervision Consultant.

Environment and Social Management Framework

RFP for Integrated City Operation Centre in existing JSCL building

		and conserve monuments, particularly those privately owned, through acquisition of rights.	owner for transfer of rights for protection. Gives Gol right to intervene in potentially harmful activities near site (e.g. mining, quarrying).	monument.	
The Antiquities and Art Treasures Act.	1972	To ensure registration of antiquarian remains in personal possession of individuals and institutions.	Registration of antiquities/remains/art is mandatory.	Possibly, if any subproject involves chance find.	Directorate of Culture. Govt. of Rajasthan// Supervision Consultant.
Social					
Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act.	2013	To ensure rights of displaced populations in the case of land acquisition.	Fair compensation for acquisition of immovable assets; Resettlement of displaced population due to land acquisition and economic rehabilitation of all those who are affected due to private land acquisition	Yes. In case of acquisition of land and /or resettlement.	Revenue Department. Govt. of Rajasthan/ Supervision Consultant.
Street Vendors (Protection of Livelihood and Regulation of Street Vending) Act	2014	To regulate street vending while ensuring rights and stating obligations of street vendors.	Local agencies must regulate vending through a Plan, including relocation/eviction rules, vendor rights (e.g. certificate of vending) and vendor obligations (e.g. maintain cleanliness of area).	Yes. In case vending areas are close to or at the location of subprojects.	Town vending Committee/ Supervision Consultant.
Child Labour (Prohibition and	2016	To completely ban on	The act has completely banned employment of	Yes, In case some contractor employs	Labour Department/ Supervision Consultant.

Environment and Social Management Framework

RFP for Integrated City Operation Centre in existing JSCL building

Regulation) Amendment Bill,		child labour.	children below 14 in all occupations and enterprises, except those run by his or her own family, provided that education does not hampered.	Child labour.	
Labour Act, Contract Labour (Regulation & Abolition) Act	1970	Act to regulate the employment of contract labor in certain establishments and to provide for its abolition in certain circumstances and for matters connected therewith.	To protect labour right.	To every establishment in which twenty or more workmen are employed or were employed on any day of the preceding twelve months as contract labour;	Labour Department/ Supervision Consultant.
Rajasthan Minimum Wages Act	2016	To regulate the wages.	To provide minimum wages.	To every Establishment.	Labour Department/ Supervision Consultant.
Payment of Wages Rule of Rajasthan.	1961	To regulate the time for wages distribution	To provide wages timely.	To every Establishment.	Labour Department/ Supervision Consultant.
Safety					
Manufacture, Storage and Import of Hazardous Chemical Rules and amendments	1989	Manufacture, Storage and Handling of Fuels and Explosive (Hazardous Chemical)	To regulate the manufacturing, storage, import and usage of explosives and hazardous chemicals.	Permission for use / storage;	SPCB, District Administration and Supervision Consultant
Environment					
Environment Protection Act	1989	To protect and improve the overall environment.	Prevention, control, and abatement of environmental pollution. Gives central government rights to monitor and test for environmental pollution, and if necessary penalize for infringements.	Yes, some specific permissions/ clearances may be required under the Act, e.g. permission for extraction of ground water for use in construction activities, from State Ground Water board.	Ministry of Environment and Forests; SEIAA/ Supervision Consultant
The Forest	1927	To check	If any forest land is	Yes, in case	State Forest

Environment and Social Management Framework

RFP for Integrated City Operation Centre in existing JSCL building

Conservation Act The Forest (Conservation) Act The Forest (Conservation) Rules The Forest (Conservation) Rules	1980 1981 2003	deforestation by restricting conversion of forested areas into non-forested areas.	proposed to be used for non-forest purposes, the user agency needs to get the clearances under the Forest (Conservation) Rules, 1981.	subprojects include pristine forest	Department. MoEFCC/ Supervision Consultant.
Wild Life (Protection) Act.	1972	To protect wildlife through certain of National Parks and Sanctuaries.	The Act provides for protection of wild animals, birds and plants and related matters. The Act contains specific provisions and chapters on protection of specified plants, sanctuaries and national parks, etc.	Yes, in case there may be any activity against the wild animals.	Chief Conservator of Wildlife, Wildlife Wing, Forest Department, Govt. of Rajasthan, National Board For Wildlife, Govt. of India and Supervision consultant.
Water (Prevention and Control of Pollution) Act.	1974	To control water pollution by controlling discharge of pollutants as per the prescribed standards.	Provides for the prevention and control of water pollution and the maintaining or restoring of wholesomeness of water; creates Boards and assigns functions and powers for the prevention and control of water pollution.	Yes, for any subproject involving water bodies, e.g.kunds revitalization	Rajasthan State Pollution Control Board/ Supervision Consultant.
Air (Prevention and Control of Pollution) Act.	1981	To control air pollution by controlling emission of air pollutants as	Act provides for prevention, control and abatement of air pollution and	Yes, for any subproject involving impact of air pollution during construction/	Rajasthan State Pollution Control Board/ Supervision Consultant.

Environment and Social Management Framework

RFP for Integrated City Operation Centre in existing JSCL building

		per the prescribed standards.	establishment of Boards for planning a comprehensive program for this task. Collect and disseminate information relating to air pollution, lay down standards for emission of air pollutants into the atmosphere from industrial plants, automobiles or other sources.	rehabilitation phases.	
Central Motor Vehicle Act	1988	To check vehicular air and noise pollution	Vehicles to be used for construction and other purposes need to meet the standards and certificates prescribed as per the Rules, 1989 to control noise, pollution, etc.	Yes. The impact of vehicular pollution during construction/ rehabilitation phases.	Motor Vehicle Department/Supervision Consultant
Central Motor Vehicle Rules and (Amendment) Rules	1989 2013 2014				
Municipal Solid Waste (Management and Handling) Rule.	2016	To Manage Municipal Solid waste.	These rules shall apply to every urban local body, outgrowths in urban agglomerations, census towns as declared by the Registrar General and Census Commissioner of India.	Yes	Municipal Corporation of Jaipur/ Supervision Consultant
Noise Pollution (Regulation and Control) Act.	2000	To Control Noise Pollution.	Four Noise Zone specified by the Central Pollution Control Board.	Yes	Rajasthan State Pollution Control Board/ Supervision Consultant.