



SEEPZ SEZ AUTHORITY

OPEN COMPETITIVE BIDDING for IT/ITES Services

(E- Procurement mode on Central Public Procurement Portal)

Bidding Documents

for

Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ

Tender Ref. No.: E-OPT-11/2/2023-IT/COMP

Date of Issue: 24th March 2023

ISSUING AUTHORITY:

Assistant Development Commissioner & Estate Manager, SEEPZ- SEZ, Mumbai

Postal Address: SEEPZ SEZ, MIDC Central Road,
Andheri East, Mumbai 400096.

E-Mail: dcseepz-mah@nic.in

Helpline No.: 022-28290856

Landlines: 022-28294728/29

(From 9:30 A.M. to 6:00 P.M.)

Key information at a glance

SN	Item	Description
1	Tender Ref. No.	E-OPT-11/2/2023-IT/COMP
2	Tender Title	Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ
3	Cost of Bidding Documents	Bidders may download the bid documents free of cost from the e-procurement portal (https://eprocure.gov.in/eprocure) and the official website of SEEPZ (www.seepz.gov.in)
4	Estimated Cost of the project	Rs. 4.50 Crore
5	Date of Tender Publishing	24 th March 2023 at 04:00 PM
6	Date and time till which physical visits prospective bidders to SEEPZ SEZ premises are permissible	Till 3 rd April 2023, Monday
7	Date and Time of Pre bid Meeting	On 7 th April 2023, Friday
8	Last Date and Time of Submission of Bids (Technical + Financial Bids)	21 st April 2023 at 04:00 PM
9	Date and Time of Technical Bids Opening	24 th April 2023 at 04:30 PM
10	Expected date of Award of Contract	1 st May 2023
11	Help Desk No. (For E-Procurement)	Name: - Smt. Rekha Nair / Shri Janesh Tripathi Designation: - Assistant, SEEPZ-SEZ / LDC Email: - dcseepz-mah@nic.in Landline:- 022 – 28294751 Cell No.:- +91 - 8451808874 (Shri Raman Ghosh)/ +91- 9819921874 (Shri Suresh Sharma)
12	Authority to be contacted in case of any clarification / request for entry permission for physical visit	Name: - Shri Shyam Jagannathan Designation:- Development Commissioner Email:- dcseepz-mah@nic.in Landline:- 022 – 28294728/29

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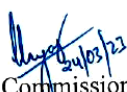
Section 1 – Notice Inviting Bids (NIB)

Bid Reference No.: E-OPT-11/2/2023-IT/COMP

Date: 24/03/2023

Tender Title: Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ

1. The SEEPZ- SEZ authority invites electronic bids from eligible bidders for Upgradation of the Surveillance CCTV network with integration of a Command-and-Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ on the CPPP (Central Public Procurement Portal i.e. <https://eprocure.gov.in/eprocure/app>)
2. Details pertaining to the scope of work, timeline and procedure to be followed may be seen under the Activity Schedule (Section 5).
3. The process of Open Competitive Bidding shall be followed for selection of suitable contractor. The bidding process shall be conducted in an online mode on the Central Public Procurement Portal (CPPP) which is publicly accessible using the following web address: <https://eprocure.gov.in/epublish/app>. Bidders can download the bidding documents free of cost from this portal.
4. Interested bidders must register on the e-procurement portal and upload their technical and financial bids separately within the stipulated time and date i.e. 1600 Hours on or before 21st April 2023.
5. Detailed instructions regarding online submission of bids may be seen under Annexure II. In case of any issues or queries related to the e-procurement portal, kindly send an email request to dcseepz-mah@nic.in or contact on 022-28294728 / 8451808874 (Shri Raman Ghosh) / 8286587409 (Shri Vikram Satre). Bidders are requested to check the system requirements for using the e-procurement portal and uploading bids adequately in advance to avoid issues from cropping up at the last minute.
6. The bidder is solely responsible for timely uploading of bids on the e-procurement portal. SEEPZ SEZ Authority shall not be liable for resolving any queries / issues raised on the last day of bid submission.
7. Technical bids shall be opened online at 1630 hours on 24th April 2023. Bidders can see the tender opening status by logging on to the e-procurement portal using their registered IDs.
8. Financial bids of only technically qualified bidders shall be opened at a date which shall be pre-disclosed on the e-procurement portal.
9. Successful bidder / System Integrator must submit a valid Performance Security deposit of 3% amount of the Part D (Bill of Quantity) – O & M amount deposited using an appropriate instrument, and in the name of the beneficiary stipulated in the Instructions to Bidders.
10. SEEPZ SEZ Authority reserves the right to accept any, and to reject any or all the bids, or to cancel the procurement process at any time during the bidding process.


Development Commissioner
SEEPZ SEZ Authority

Section 2 – Instructions to Bidders (ITB)

A. General

1. Introduction

- a) This Section provides the relevant information as well as instructions to assist prospective Bidders in preparation and submission of bids. It also includes the mode and procedure to be adopted by the Procuring Entity, being SEEPZ, SEZ Authority for receipt and opening as well as scrutiny and evaluation of bids and subsequent placement of award of contract.
- b) Before preparing the bid and submitting the same to the Procuring Entity, being SEEPZ, SEZ authority, the Bidder should read and examine all the terms & conditions, instructions etc. contained in the Bidding Documents. Failure to provide required information or to comply with the instructions incorporated in this Bidding Documents may result in rejection of bids submitted by Bidders.
- c) The successful Bidder will be expected to complete the performance of Services by the Intended Completion Date as provided in the BDS.

2. Language of Bids

Bid submitted by the Bidder and all subsequent correspondences and documents relating to the bid exchanged between the Bidder and the Procuring Entity, shall be written in English language. However, the language of any printed literature furnished by the Bidder in connection with its bid may be written in any other language, provided the same is accompanied by a self-certified English translation and, for purposes of interpretation of the bid, the English translation shall prevail.

3. Code of Integrity

- a) The Procuring Entity and all officers or employees of the Procuring Entity being SEEPZ, SEZ authority, whether involved in the procurement process or otherwise, or Bidders and their representatives or Service Providers or Service Providers participating in a procurement process or other persons involved, directly or indirectly in any way in a procurement process shall maintain an unimpeachable standard of integrity in accordance with the code of integrity prescribed under GFR 175.
- b) In case of breach of the code of integrity by a Bidder or a prospective Bidder, the SEEPZ Authority, after giving a reasonable opportunity of being heard, may take appropriate measures including –
 - i. exclusion of the Bidder from the procurement process;
 - ii. calling off of pre-contract negotiations and forfeiture or encashment of bid security;
 - iii. forfeiture or encashment of any other security or bond relating to procurement;
 - iv. recovery of payments made by the Procuring Entity along with interest thereon at bank rate;

- v. cancellation of the relevant contract and recovery of compensation for loss incurred by the Procuring Entity;
- vi. Debarment of the Bidder from participation in any future procurements of any Procuring Entity for a period of up to three years.

4. Eligibility

- a) This invitation to tender is open to all bidders eligible as described in the instructions to bidders. SEEPZ employees, Committee members, Board members and their relatives (Spouse or Children) are not eligible to participate in the tender. Bidders involved in corrupt and fraudulent practices or debarred from participating in Public Procurement by any state government or any procuring entity of the central government shall not be eligible.
- b) The specific eligibility conditions shall be as prescribed under the Bid Data Sheet.
- c) Bidders shall submit a declaration regarding its eligibility vis-à-vis all the criteria mentioned under the instructions to bidders and the bid data sheet.

5. Qualifications

Bidders should substantially meet the qualification criteria as stipulated in the 'Section 4 - Evaluation and Qualification Criteria'. Bidders should fill and submit the Forms provided in 'Section 6 - Bidding Forms' to provide relevant information and documents in support of fulfillment of Bidder's qualification as part of its technical bid. Only technical qualified bidders shall be processed for valid financial bids (Two Envelope System).

6. E-Tendering Online Bid Submission Process

The e-tender is available on CPPP portal, <https://eprocure.gov.in/eprocure/app> as mentioned in the tender. The tenders duly filled in should be uploaded and submitted online on or before the end date of submission. More details regarding the online bid submission process may be found under Annexure-II attached to this bidding document.

B. Bidding Documents

7. Contents of Bidding Documents

- a) The Bidding Documents include the following Sections, which should be read in conjunction with any amendment issued in accordance with ITB.
 - Section 1 Notice Inviting Bids (NIB)
 - Section 2 Instructions to Bidders (ITB)
 - Section 3 Bid Data Sheet (BDS)
 - Section 4 Evaluation and Qualification Criteria
 - Section 5 Activity Schedule
 - Section 6 Bidding Forms
 - Section 7 General Conditions of Contract (GCC)
 - Section 8 Special Conditions of Contract (SCC)

- Section 9 Contract Forms
 - Financial Bid Template in MS Excel format
- b) Unless downloaded directly from the SEEPZ website (<http://seepz.gov.in>) or the e-procurement portal (<https://eprocure.gov.in/epublish/app>) as specified in the BDS, Procuring Entity shall not be responsible for the correctness of the Bidding Documents, responses to requests for clarification, the Minutes of the Pre-bid meeting, if any, or Amendment(s) to the Bidding Documents in accordance with ITB.
 - c) Bidders are expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as is required by the Bidding Documents.

8. Clarification of Bidding Documents

- a) A Bidder requiring any clarification of the Bidding Documents shall contact the SEEPZ, SEZ authority in writing / email at the Procuring Entity's address specified in the BDS (email : - raman.ghosh@gov.in, suresh.sharma123@gov.in, vikram.satre@gov.in)
- b) The Procuring Entity will respond in writing / email / through the e-procurement portal to any request for clarification, provided that such request is received prior to the deadline for submission of bids within a period specified in the BDS. The Procuring Entity shall also promptly publish brief description of the enquiry but without identifying its source and its response at its website or on the e-procurement portal.
- c) Should the clarification result in changes to the essential elements of the Bidding Documents, the Procuring Entity shall amend the Bidding Documents following the procedure given under ITB.

9. Pre-bid Meeting

- a) In order to provide response to any doubt regarding Bidding Documents, or to clarify issues, a pre-bid meeting may be scheduled, as specified in the BDS.
- b) During the pre-bid meeting, the clarification sought by representative of prospective Bidders shall be responded appropriately. However, they shall be asked to submit their written request by close of office next day or by e-mail for electronic record thereof. The Procuring Entity shall publish written response to such requests for clarifications, without identifying its source. In case required, amendment(s), in terms of ITB below shall be issued, which shall be binding on all prospective Bidders.

10. Amendments to Bidding Documents

- a) At any time prior to the deadline for submission of bids, the SEEPZ SEZ authority may, for any reason deemed fit by it, amend or modify the Bidding Documents by issuing Amendment(s)/corrigendum.
- b) Such Amendment(s)/corrigendum will be published on SEEPZ SEZ authority's

website or on the e-procurement portal and the same shall be binding on all prospective Bidders.

- c) In order to give reasonable time to prospective Bidders to take necessary action in preparing their bids, the Procuring Entity may, at its discretion, extend the deadline for the submission of bids and other allied time frames which may be linked with that deadline.
- d) Any Bidder who has downloaded the Bidding Documents should check the Amendment(s), if any, issued on the SEEPZ SEZ authority website and on the e-procurement portal. The Procuring Entity shall not be responsible in any manner if prospective Bidders miss any Amendment(s) published on Procuring Entity's website or on the e-procurement portal.

C. Preparation of Bids

11. Documents Comprising Bid

- a) Bidder's technical bid shall comprise the following:
 - Letter of Bid as per the form provided in Section 6 – Bidding Forms;
 - Bid Security declaration furnished in accordance with Annexure I;
 - Bidder Information Form as per Form provided in Section 6: Bidding Forms;
 - Documents establishing Bidders' eligibility and qualification in accordance with Forms given in Section 6: Bidding Forms;
 - Any other document as required in the ITB or BDS
 - An Undertaking duly signed on the letter head from the Bidders to the effect that they agree and abide by the clauses / conditions of Bidding Documents issued by the Procuring Entity and any amendment made thereafter.
- b) Bidder's financial bid shall comprise the financial quote submitted in the excel template published along with these bidding documents.

12. Financial Quote

The evaluation of financial Proposal will shall be excluding GST. Section 16 of the IGST Act categorizes services provided to SEZs as zero-rated. Hence, there shall be no instance of GST.

13. Period of Validity of Bids

- a) Bids shall remain valid for a period of 180 days from the deadline of submission of bids unless otherwise specified in the Bid Data Sheet.
- b) 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. 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.

- c) The Bidder who agrees to the extension of the period of validity of bids so requested by the Procuring Entity shall also extend the period of validity of bid securities submitted by them or submit new bid security to cover the extended period of validity of their bids. A Bidder whose bid security is not extended or new bid securities not submitted shall be considered to have refused the request to extend the period of validity of its bids and rejected as non-responsive. The decision of Procuring Entity will be final and binding in this regard.

14. Bid Security

The Bidder shall furnish as part of its bid, a bid security declaration duly signed on the letterhead as specified in the BDS. Any bid not accompanied by a Bid Security declaration in the required format shall be rejected by the Procuring Entity as non-responsive.

15. Format and Signing of Bids

- a) The technical bids comprising all documents specified under ITB Clause 11 a) may be compiled into a single PDF document. All pages in the document should be serially numbered and an index specifying contents of the bid should be populated at the beginning of the document.
- b) Authorized signatory of the bidder shall sign, either physically or digitally, on each page of the bid. This signature should be accompanied by bidder's official seal.
- c) The financial bid must be submitted in the MS excel template provided with the bidding documents.

D. Submission and Opening of Bids

16. Sealing, Marking and Submission of Bids

- a) Consultants shall upload their technical and financial proposals in separate folders provided on the e-procurement portal.
- b) The procedure for online submission of Proposals shall be in accordance with the instructions given under Annexure I.

17. Deadline for Submission of Bids

- a) Bids must be received by the Procuring Entity online on the e-procurement portal and at the address specified in the BDS no later than the date and time specified in the BDS.
- b) The date of submission and opening of bids shall not be extended except when:
 - sufficient number of bids have not been received within the given time and the Procuring Entity is of the opinion that further bids are likely to be submitted if time is extended; or
 - The Bidding Documents are required to be substantially modified as a result of discussions in pre-bid meeting or otherwise and the time for preparations of bids by the prospective Bidders appears to be insufficient

for which such extension is required.

- c) In cases where the time and date of submission of bids is extended, an amendment to the Bidding Documents shall be issued in accordance with ITB 10.

18. Late Bids

The e-procurement portal does not permit late submission of bids. With regards to the physical submission of bids, the SEEPZ SEZ authority's officer authorized to receive the bids shall not receive any bid that is submitted personally by hand or by courier after the time and date fixed for submission of bids under any circumstances.

19. Opening of Bids

- a) The technical bids shall be opened online on the date and time stipulated in the BDS.
- b) In exceptional circumstances, if the procuring entity is faced with any technical issues while opening the bids online, with due certification of the Bid Evaluation Committee on the nature of such technical exception, the physical bids in hard copy shall be proceeded to be evaluated with after due approval of Competent Authority. In such an event, the date of bid opening shall be the same as the one stipulated for online bid opening unless separately publicly notified by the competent authority.
- c) After due evaluation of the technical bids, the procuring entity shall notify the technically qualified bidders regarding the date of financial bid opening by giving at least 3 days' advance notice on the e-procurement portal.
- d) The financial bids of only technically qualified bidders shall be opened.

E. Evaluation and Comparison of Bids

20. Confidentiality

- a) Information relating to the evaluation of bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the bidding process until the same is published officially on the e-procurement portal for information of all Bidders.
- b) Any effort by a Bidder to influence the Procuring Entity in the evaluation or contract award decisions may result in the rejection of its Bid.

21. Preliminary Examination of Bids

- a) The Bid Evaluation Committee constituted by the Procuring Entity shall conduct a preliminary scrutiny of the opened bids at the beginning to assess the prima-facie responsiveness and record its findings thereof particularly in respect of the following:
 - that the bid is complete and duly signed by authorized signatory;
 - that the bid is valid for the period, specified in the Bidding Documents;
 - that the bid is accompanied by Bid Security declaration;
 - that the bid is unconditional and that the Bidder has agreed to give the required performance security; and

- any other specific requirements put forth in the bidding documents.
- b) Bids failing to meet these preliminary requirements shall be treated as non-responsive and shall not be considered further for evaluation.

22. Immaterial Non-conformities

- a) The Bid Evaluation Committee may waive non-conformities in the bid that do not constitute a material deviation, reservation or omission and deem the bid to be responsive;
- b) The Bid Evaluation Committee may request the Bidder to submit necessary information or documents which are historical in nature like audited statements of accounts, tax clearance certificate, PAN, etc. within a reasonable period of time. Failure of the Bidder to comply with the request within the given time shall result in the rejection of its bid;
- c) The Bid Evaluation Committee may rectify immaterial non-conformities or omissions on the basis of the additional information or documentation received from the Bidder.

23. Determination of Responsiveness

- a) The Bid Evaluation Committee constituted by the Procuring Entity shall determine the responsiveness of a bid to the Bidding Documents based on the contents of the bid submitted by the Bidder;
- b) A bid shall be deemed to be substantially responsive if it meets the requirements of the Bidding Documents without any material deviation, reservation, or omission where: -
 - i. “deviation” is a departure from the requirements specified in the Bidding Documents;
 - ii. “reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Documents; and
 - iii. “Omission” is the failure to submit part or all of the information or documentation required in the bidding documents.
- c) A “material deviation, reservation, or omission” is one that, if accepted, shall:-
 - i. Effect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the Bidding Documents; or
 - ii. Limit in any substantial way, inconsistent with the Bidding Documents, the rights of the Employer or the obligation of the Bidder under the proposed contract; or
 - iii. If rectified shall unfairly affect the competitive position of other Bidders presenting responsive bids;
- d) The Bid Evaluation Committee shall examine the technical aspects of the bid in particular to confirm that all requirements of Bidding Documents have been met without any material deviation, reservation or omission;

- e) The Bid Evaluation Committee shall regard a bid as responsive if it conforms to all requirements set out in the Bidding Documents, or contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the Bidding Documents, that is, there is no material deviation, or if it contains errors or oversights that can be corrected without any change in the substance of the bid;
- f) Bids that are not responsive or contain any material deviation shall be rejected. Bids declared as non-responsive shall be excluded from any further evaluation.

24. Non-conformities, Errors and Omissions

- a) Provided that a Bid is substantially responsive, the Bid Evaluation Committee may waive any nonconformity in the Bid.
- b) Provided that a bid is substantially responsive, the Procuring Entity, being SEEPZ, SEZ authority or authorized representative may request that the Bidder 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. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- c) Provided that a bid is substantially responsive, the Bid Evaluation Committee shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non- conforming item or component.

25. Evaluation of Bids

- a) Technical evaluation of bids shall be carried out based on the criteria stipulated under 'Section 4 – Evaluation and Qualification Criteria'. The evaluation committee shall not adopt any other criteria other than the ones already stipulated in the bidding documents.

26.

- a) The evaluation of financial Proposal shall exclude GST. Section 16 of the IGST Act categorizes services provided to SEZs as zero-rated. Hence, there shall be no instance of GST.
- b) The Procuring Entity's evaluation of a bid may require the consideration of other factors, in addition to the bidder's financial offer. These factors may be related to the characteristics, performance, and terms and conditions of purchase of Non-Consultancy Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, shall be specified in Section IV - Qualification and Evaluation Criteria.

27. Right to Accept Any Bid and to Reject Any or All Bids

The Procuring Entity reserves the right to accept or reject any bid, and to cancel / annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the Bidders for which the Procuring Entity shall keep record of clear and logical reasons properly for any such action / recall of

bidding process. In case of cancellation / annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders

F. Award of Contract

28. Award Criteria

Subject to its bid being technically qualified, unconditional and complete, the bidder offering the lowest rate shall be considered for award of contract.

29. Notification of Award

- a) Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the “Letter of Acceptance”) shall specify the accepted bid price. The expected date of award of contract is as stipulated under BDS.
- b) Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

30. Performance Security

- a) Within twenty-eight (28) days of the receipt of Letter of Acceptance from the Procuring Entity, the successful Bidder shall furnish the Performance Security in the form of an advance deposit in the name of SEEPZ SEZ Authority of the amount specified in the BDS.
- b) 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/debarment as per bid security declaration. In that event the Procuring Entity may award the Contract to the next highest evaluated Bidder, whose bid is substantially responsive and is determined by the Procuring Entity to be qualified to perform the Contract satisfactorily.
- c) The validity of the performance security shall be for a period of 45 days beyond the date of completion of all contractual obligations.

31. Other Statutory Requirements

Successful bidder shall be required to fulfill insurance and other statutory requirements including submission of signed undertakings assuring compliance with the various standards stipulated in the conditions of contract, failing which the course of action stipulated under ITB clause 29 b) shall be applicable.

32. Signing of Contract

Promptly after notification of Award, the Procuring Entity shall send the successful Bidder the Contract Agreement. Within twenty-eight days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Procuring Entity.

Section 3 – Bid Data Sheet (BDS)

The following specific data for the Non-Consultancy Services to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB

ITB Para Reference	Particulars
ITB 1 c)	The intended completion date is: 4 Months from the date of award of contract + 3 years C-AMC. -
ITB 4 b)	<ul style="list-style-type: none"> i) Bidder shall be a natural person, private entity, government-owned entity or,any combination of these having a formal intent and legal competency to enter into an agreement or contract and are registered under respective Act and Jurisdiction in India; ii) Bidder shall have fulfilled his obligation to pay such of the tax payable to the Central Government or the State Government or any local authority; iii) Bidder shall not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons; iv) Bidder shall not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings; v) Bidder shall not be presently debarred by any Procuring Entity under the State Government, the Central Government, Autonomous body, Authority by whatever name called under them.
ITB 7 b)	<p>The official website of SEEPZ SEZ Authority is:</p> <p>http://seepz.gov.in The e-procurement portal is:</p> <p>https://eprocure.gov.in/eprocure/app</p>
ITB 8 a)	<p>The Procuring Entity’s address for seeking clarifications is:</p> <p>Office of the Development Commissioner, SEEPZ SEZ, MIDC Central Road,Andheri East, Mumbai – 400096</p> <p>The email address is: dcseepz-mah@nic.in</p> <p>Queries may also be raised by using the ‘seek clarifications’ option available onthe e-procurement portal.</p>

ITB 9 a)	The bidders may submit their requests for clarification via email mentioned in the RFP no later than 16:00 hrs on 06 th April 2023.
ITB 9 a)	<p>The pre-bid meeting shall be held electronically on 7th April 2023 at 15:00 hrs</p> <p>The web-link to attend the pre-bid meeting is as follows: Meeting Link: https://seepz.webex.com/seepz/j.php?MTID=m0ce45efb734ea5aa0de57de0d88eba12</p> <p>Password : CCTV@07</p>
ITB 12	<p>As per the Excel BOQ Template</p> <p>The financial offer quoted by the bidder shall be fixed during the bidder's performance of the contract and shall not be subject to variation on any account.</p>
ITB 13 a)	Bids shall remain valid for a period of 180 days.
ITB 14	In lieu of Bid Security, Bid Security Declaration shall be submitted duly signed on the letterhead of the bidder, in pursuance of Govt. of India O.M. No. F.9/4/2020-PPD dated 12/11/2020, as per the format provided at Annexure I.
ITB 17	The deadline for submission of bids is on 21 st April 2023 till 04:00 PM
ITB 19 a)	The technical bids shall be opened online on 24 th April 2023 at 04:30 PM
ITB 29 a)	The amount of performance security to be submitted by successful bidder, in the form of bank guarantee, shall be 3% of the total price quoted by the bidder in Part D.
ITB 28 a)	The expected date of award of contract is 1 st May 2023

Annexure I – Form of Bid Security Declaration

{ Use Company Letterhead }

BID SECURITY DECLARATION

I/We, M/s (Name of bidder) am/are aware that I/We have been exempted from submission of Bid Security/Earnest Money Deposit in lieu of this Bid Security Declaration. I/We understand and accept that if I/We withdraw my/our bid within bid validity period or if awarded the tender and on being called upon to submit the performance Guarantee/Performance Security fail to submit the same within the stipulated time period mentioned in tender documents or on being called upon to sign the contract agreement fail to sign the same within stipulated period mentioned in tender documents, I/We i.e., the bidder shall be banned from submission of bids in any Works/Service Tender issued by SEEPZ-SEZ for a period of 24 months from the date of such banning order.

Authorized Signatory
Sign and Stamp

Annexure II - Instructions for Online Bid Submission

Bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

REGISTRATION

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial

quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>. Bidders are requested to note that CPPP is built and maintained by the National Informatics Centre and that the Procuring Entity is not responsible for any technical issues related to the CPP Portal. All information contained in this annexure is taken directly from the CPP Portal.

Section 4 – Evaluation and Qualification Criteria

This Section contains all the criteria that the SEEPZ SEZ Authority shall use to evaluate bids and qualify the Bidders in accordance with ITB 25. No other factors, methods or criteria shall be used for the purpose of evaluation.

Technical Evaluation Process

1. Preliminary Examination of Bids and Determination of Responsiveness

The evaluation committee shall carry out the preliminary examination of bids and shall determine the responsiveness of bids based as per the procedure stipulated under ITB 22, 23, 24 and 25.

2. Qualification Requirements

The SEEPZ SEZ Authority shall assess qualifications of participating bidders according to the following criteria, based on the corresponding documentary evidence to be submitted by the bidders:

S. No.	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	<p>The bidder should be a Proprietorship firm duly registered either under the Bombay Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement.</p> <p>(Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder).</p> <p>OR</p> <p>A company registered under Indian Companies Act, 1956</p> <p>OR</p> <p>A partnership firm registered under Indian Partnership Act, 1932.</p> <p>OR</p> <p>Consortium is also allowed. The consortium shall not consist of more than two companies/ corporations and shall be formed under a duly stamped consortium agreement. (Attach Proof). In a consortium, one of the partners shall be designated as a "Lead Partner". The bidder or Lead partner of the consortium shall be an Information Technology and Communication Company/ Corporation.</p>	<p>- Copy of valid Registration Certificates</p> <p>In case of Company -Copy of Certificate of incorporation</p> <p>In case of a consortium, a Consortium Agreement must be submitted, duly signed by the consortium members.</p>

2.	Financial: Turnover from IT/ ITeS	<p>Average Annual Turnover of the lead bidder/consortium from IT/ ITeS during last three financial years, i.e., from 2018-2019 to 2020-2021/2021-2022 (as per the last published audited balance sheets), should be at least Rs. 8 Crores as per the OM No. F.18/13/2020-PPD.</p> <p>Incorporation of both the consortium bidder must be on or before 2020.</p>	CA Certificate with CA's Registration Number/ Seal
3.	Financial: Net Worth	The net worth of the lead bidder/consortium, as on 31 st March 2021/2022, should be Positive.	CA Certificate with CA's Registration Number/ Seal
4.	Technical Capability -I	<p>The lead bidder/consortium partner must have successfully completed at least one project of building up of centralized command and control center with deployment of Video management software for monitoring atleast 150 cameras.</p> <p>OR</p> <p>The lead bidder/consortium partner must have Successfully completed atleast two project of building up of centralized command and control center with deployment of Video management software for monitoring 150 cameras.</p> <p>The project should also have component for CAMC support for minimum of three years.</p> <p>Note: Duration from April 2018 to bid submission date will also be considered.</p>	Self-declaration with project reference And Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion
5.	Technical Capability -II	The lead bidder partner must be capable of advising and assisting for ISO 27001 certification of SEEPZ CCC.	Self Certificate of Advisory Service and proof of ISO Certifying Authority details.
6.	Technical Capability for proposed VMS Vendor-I	<p>The lead bidder must bring VMS software of vendor who has successfully deployed its VMS software in a project comprising of minimum of 150 cameras integrated at centralized command and control center during any of the last three financial years.</p> <p>Note: Duration from April 2018 to bid submission date will also be considered.</p>	Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion

			(Certified by the Statutory Auditor);OR Work Order + Phase Completion Certificate from the client
7.	Technical Capability for proposed VMS Vendor-II	Lead Bidder must submit - OEM Authorization Certificate (VMS vendor, IT Equipment, CCTV Equipment) should have sales and support office in India.	Valid OEM Authorization certificates of lead bidder for all 3 category.
8.	Tax registration and clearance	The lead bidder should have a registered number of i. GST where his business is located ii. PAN	Copies of relevant certificates of registration of lead bidder.
9.	Certifications	The lead bidder partner must possess at the time of bidding, a valid a. ISO 9001:2008 b. CMMI Level 3 b. ISO 20000 c. ISO 27001	Copy of a valid certificate-online traceable and self-attested by lead bidder or consortium bidder
10.	Technical Expertise	Details of Technicians to be deployed: 1. Supervisor CCC: B-Tech in CS/IT/Electrical/Electronic or equivalent with minimum 6.0 CGPA from a UGC Recognized University with 4 years of relevant experience. 2. Operator CCC: Diploma or Certified in CCC/CCTV & VMS applications with minimum 2 years relevant experience.	Copy of CVs with self-declaration in company letter head of the lead bidder.
11.	Mandatory Undertaking	Lead Bidder & Consortium Bidder should: - a) Not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons; b) Not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a	A Self Certified in letter head.

		<p>period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;</p> <p>c) Not have a conflict of interest in the procurement in question as specified in the bidding document.</p> <p>d) Comply with the code of integrity as specified in the bidding document.</p>	
12.	Approach, methodology and work plan including AutoCAD-3D designs	The Lead bidder must submit the presentation with the technical bid and further the presentation date in front of the committee members will be communicated after the pre-qualification criteria check.	Colour Scan copy of the document to be uploaded in Procurement Portal.
13.	Bid Security Declaration	Bidder must submit the Bid Security Declaration as per the proforma given in the document.	A Self Certified in letter head.

Bidders must ensure that the documentary evidence submitted by them as proof of their qualification must provide the necessary information in adequate details to establish the facts without a scope for doubt. Any scanned documents being submitted must possess adequate resolution to ensure their legibility without confusion. In case any information necessary for establishing bidder's qualifications is not clear from the documents submitted, the evaluation committee's interpretation in that regard shall be final. Incomplete or unclear documents may lead to disqualification of the bidder.

3. Evaluation of Technical Proposal

The technical proposals submitted by the bidders shall be evaluated on the following parameters.

SN	Criterion	Documents to be submitted	Marks
1	Technical Capability -I as per Qualification Requirement	Self-declaration with project reference And Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion	10 Marks
2	Technical Capability -II as per Qualification Requirement	Self-Certificate of Advisory Service and proof of ISO Certifying Authority details.	5 Marks
3	Technical Capability for proposed VMS Vendor-I as per Qualification Requirement	Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion	10 Marks

		(Certified by the Statutory Auditor); OR Work Order + Phase Completion Certificate from the client	
4	Technical Capability for proposed VMS Vendor-II as per Qualification Requirement (Mandatory)	Valid OEM Authorization certificates of lead or consortium bidder for all 3 category.	15 Marks (5 For each category)
5	Certifications: (Mandatory) a. ISO 9001:2008 b. CMMI Level 3 c. ISO 20000 d. ISO 27001	Copy of a valid certificate-online traceable and self-attested by lead bidder or consortium bidder	5 Marks each Certificate (Total 20 Marks)
6	Technical Expertise: i. Supervisor CCC -1 Nos. ii. Operator CCC – 3 Nos. per shift	Copy of CVs with self-declaration in company letter head of the lead bidder.	10 Marks – Each category 5 Marks
7	Approach, methodology and work plan including AutoCAD-3D designs with proper reference from the Generic Specifications for the equipment (at Annexure 2).	To submit the presentation with the technical bid and further the presentation date in front of the committee members will be communicated after the pre-qualification criteria check.	30 Marks

Minimum qualifying technical score is 75 Marks

Combined Evaluation Process (QCBS)

1. Weights for Quality and Cost

For the purpose of combined evaluation, the following weights shall be considered:

Technical Score: 70%; Financial Score: 30%

2. Calculation of weighted technical score

For calculation of weighted technical score, consultant's technical score out of 100 shall be multiplied by a factor of 0.70. Thus, for example, a consultant obtaining 80 marks out of 100 in its technical evaluation would have a weighted score of 56 out of 70.

3. Minimum qualifying technical score

Only those consultants who obtain at least 75 marks out of 100 in the technical evaluation process shall

be eligible for financial bid opening.

4. Calculation of weighted financial score

The lowest financial proposal shall be accorded a financial score of 100 out of 100 and all other bidders shall be given proportionate scores. An illustrative example is provided below:

Consultant Name	Price Quoted	Financial Score out of 100
Consultant A	Rs. 50,00,000	$= \frac{40,00,000}{50,00,000} \times 100 = 80$
Consultant B	Rs. 40,00,000	100
Consultant C	Rs. 60,00,000	$= \frac{40,00,000}{60,00,000} \times 100 = 66.67$

After calculating the financial score out of 100, the weighted financial score shall be calculated by multiplying the financial score by a factor of 0.30. Thus, for example, a consultant obtaining 80 marks out of 100 would have a weighted financial score of 24 out of 30.

5. Combined evaluation and recommendation for award of contract

The combined evaluation score shall be the sum of weighted technical and weighted financial scores. An example of weighted scores and combined scores is given below:

Consultant	Technical Score	Weighted Technical Score (0.70)	Financial Score	Weighted Financial Score (0.30)	Combined Score
A	80	56	100	30	86
B	90	63	90	27	90

The consultant obtaining the highest combined score shall be recommended for award of contract by the evaluation committee.

Section 5 – Activity Schedule

Background

Santacruz Electronics Export Processing Zone (SEEPZ) is a Special Economic Zone in Mumbai, India with a geographical spread of nearly 110 Acres with 9 major buildings (approximately 4 Lakh square feet of space). The SEEPZ SEZ is entering 50th year of its existence in May 2022. The SEEPZ SEZ Authority (the Authority) intends to celebrate its golden jubilee year (from May 2022 to May 2023) alongside ‘Azadi ka Amrit Mahotsav’ which commemorates 75 years of India’s independence. In this backdrop, SEEPZ SEZ Authority seeks to engage an event management agency for smooth organization of various events to be held during the golden jubilee year. Currently SEEPZ Surveillance system is having total 155 Cameras and following list of Existing Infrastructure / Equipments:

Sr. No	Name	Model	Qty.	Unit	Make
1	Secureye Camera Dom	S-IP-D4	32	Nos	Secureye
2	Panasonic Ptz Camera	WV-SF-396E	8	Nos	Panasonic
3	SecureyePtz	S-PTZ-D2IP-20X150M	49	Nos	Secureye
4	Secureye / Hikvision Bullet type	8-IP-W1	54	Nos	Secureye / Hikvision
5	LG Bullet Camera	LNP3020T	12	Nos	LG
6	Cisco Network Switch	SRW2024P	7	Nos	Sysco
7	Lenovo Workstation	E73	4	Nos	Lenovo
8	Dell Workstation	3010DT	1	Nos	Dell
9	Dell 5 Screen	E1913SC	5	Nos	Dell
10	Dell server	210	2	Nos	Dell
11	IBM Server	IBM3250M4	2	Nos	IBM
12	IBM Server	IBM3550M3	5	Nos	IBM
13	Dell Nas Storage	NX3100	2	Nos	Dell
14	Dell Nas Storage	NX3200	1	Nos	Dell
15	Lenovo Nas Storage	PX12-400R	3	Nos	Lenovo
16	UPS	EATON9145	All	Nos	Eaton
17	SyrotechGopon	SY-GOPON_8OLT-L3	3	Nos	Syrotech
18	SyrotechOnu	Onu	121	Nos	Syrotech
19	LG 42 Inch LED		4	Nos	LG
20	Fiber Optic Cables for camera	Throughout SEZ	All	Nos	
21	Electric Power Supply Cables at different zones.	Throughout SEZ	All	Nos	
22	NVR 32 Channel		5	Nos	HIKVISION
23	Giga Switch 8 port		1	Nos	



Existing Fibre Network in all Sectors:

Map of CCTV Camera's in SECTOR -1



Map of CCTV Camera's in SECTOR -2



1	21-12-2022	S R	S W	R D	
Rev No	Status	Date	Drawn By	Checked By	Approved By
CCTV CAMERA'S IN SECTOR - 2					
Project Title					
Client		SEEPZ - SPECIAL ECONOMIC ZONE			
Drawing					
Date					
Client					
Appr.					
Date					
Project No.		Drawing No.	Scale	Rev. No.	Sheet No.
		1	1 CM = 15 M		
		GEOFINO SERVICES Unit No 1, Building No 5, Sector 5, Mid Town cum Busi near Park, Malpura, Navi Mumbai			

1 centimeter = 15 meters

0 75 150 Meters

Details of CCTV Camera in SEC-2OR						
Sl. No.	Name	IP	Port	Version	Specification/MFG. Date	Location
1	PTZ 18 (CCTV)	142	PTZ	2	Securec 3000-201	NEAR GATE NO.2 BOUNDARY
2	PTZ 19 (CCTV)	148	PTZ	2	Patronite 2014	NEAR CHURCH
3	PTZ 20 (CCTV)	148	PTZ	2	Securec 3000-201	NEAR CHURCH
4	PTZ 21 (CCTV)	148	PTZ	2	Securec 3000-201	OFF. CHURCH ROAD BOUNDARY
5	PTZ 22 (CCTV)	148	PTZ	2	Securec 3000-201	OFF. CHURCH ROAD BOUNDARY
6	PTZ 24 (CCTV)	171	PTZ	2	Securec 3000-201	G/1 BOUNDARY
7	PTZ 25 (CCTV)	178	PTZ	2	Securec 3000-201	OFF. CHURCH ROAD BOUNDARY
8	PTZ 26 (CCTV)	180	PTZ	2	Securec 3000-201	OFF. CHURCH ROAD BOUNDARY
9	PTZ 27 (CCTV)	189	PTZ	2	Securec 3000-201	WATCH TOWER BOUNDARY
10	PTZ 28 (CCTV)	191	PTZ	2	Securec 3000-201	G/3 FRONT ENTRANCE
11	HRK 6 (CCTV)	161	HRK	2	Securec 3014	G/1 BACK SIDE
12	HRK 6 (CCTV)	215	HRK	2	LG 2014	G/4 BACK SIDE
13	HRK 6 (CCTV)	216	HRK	2	Securec 3014	G/5 FRONT ENTRANCE
14	HRK 6 (CCTV)	230	HRK	2	LG 2014	MAIN ROAD GARBARGE
15	HRK 6 (CCTV)	230	HRK	2	LG 2014	WAY TO GATE NO.1 DIVIDER
16	HRK 6 (CCTV)	230	HRK	2	LG 2014	WAY TO GATE NO.1
17	HRK 6 (CCTV)	210	HRK	2	LG 2014	WAY TO GATE NO.2 ROAD
18	HRK 6 (CCTV)	248	HRK	2	Securec 3014	FRONT ENTRANCE
19	HRK 6 (CCTV)	248	HRK	2	Hanison 2020	G/3 FRONT ENTRANCE
20	HRK 6 (CCTV)	212	HRK	2	Securec 3000-201	GARBARGE AREA
21	HRK 6 (CCTV)	218	HRK	2	Securec 3000-201	GOLDMINT NATIONAL
22	HRK 6 (CCTV)	228	HRK	2	Securec 3000-201	NEAR WELL SIDE
23	HRK 6 (CCTV)	144	HRK	2	Securec 3000-201	NEAR WELL SIDE
24	PTZ 29 (CCTV)	167	PTZ	2	Securec 3000-201	5TH BOUNDARY
25	DOMS 7 (CCTV)	77	PTZ	2 Gate No.2	Securec 3000-201	GATE NO.1 VEHICLE ENTRANCE
26	DOMS 8 (CCTV)	77	PTZ	2 Gate No.2	Securec 3000-201	GATE NO.1 VEHICLE ENTRANCE
27	DOMS 10 (CCTV)	12	HRK	2 Gate No.2	Securec 3000-201	GATE NO.2 BAGGAGE SCANNER
28	DOMS 11 (CCTV)	12	HRK	2 Gate No.2	Securec 3000-201	GATE NO.2 BAGGAGE SCANNER
29	DOMS 12 (CCTV)	11	HRK	2 Gate No.2	Securec 3000-201	GATE NO.2 BAGGAGE SCANNER
30	DOMS 13 (CCTV)	11	HRK	2 Gate No.2	Securec 3000-201	GATE NO.2 BAGGAGE SCANNER

Map of CCTV Camera's in SECTOR -3



Legend

▲ Gates

CCTV CAMERA

TYPE

● HRC

● PTZ

— Compound_Wall

— Road Edge

— Divider

Sectoral Boundary

Sector No

■ Sector I

■ Sector II

■ Sector III

■ Sector IV

■ Sector V

■ Sector VI

1		21-12-2021	S.R.	S.W.	R.D.	
Rev. No	Status	Date	Drawn By	Checked By	Approved By	Description
Project Title CCTV CAMERA'S IN SECTOR- 3						
Client SEEPZ - SPECIAL ECONOMIC ZONE						
Drawn						
Date						
Checked						
Date						
Project No.						
Drawing No.						
Scale						
Rev. No.						
Sheet No.						
GEOINFO SERVICES						
Unit No 1, Building No 3, Sector 3, Milind um Business Park, Malape, Navi Mumbai						

1 centimeter = 15 meters

0 75 150 Meters

Details of CCTV Camera's in SECTOR- 3							
Sr. No.	Name	IP	Type	Sectors	Specification	MFG. Date	Location
1	PTZ 30 (CCTV)	166	PTZ	3	Secure	2020-2021	STP BOUNDARY
2	HRC 33 (CCTV)	163	HRC	3	Secure	2020-2021	GARBAGE AREA
3	HRC 39 (CCTV)	225	HRC	3	Secure	2020-2021	NEAR WELL SIDE
4	HRC 26 (CCTV)	211	HRC	3	LQ	2014	SDF 3 WEST SIDE
5	HRC 36 (CCTV)	221	HRC	3	Secure	2020-2021	SDF 3 WEST SIDE
6	HRC 32 (CCTV)	217	HRC	3	Secure	2020-2021	TATA JEWELLARY SIDE
7	HRC 31 (CCTV)	216	HRC	3	Secure	2020-2021	TATA JEWELLARY SIDE
8	HRC 28 (CCTV)	213	HRC	3	Secure	2020-2021	JUNCTION OF SDF & G I
9	PTZ 33 (CCTV)	163	PTZ	3	Secure	2020-2021	STP BOUNDARY
10	PTZ 35 (CCTV)	141	PTZ	3	Secure	2020-2021	CUSTOM PETROLING ROAD
11	PTZ 36 (CCTV)	136	PTZ	3	Secure	2020-2021	CUSTOM PETROLING ROAD
12	PTZ 37 (CCTV)	137	PTZ	3	Secure	2020-2021	CUSTOM PETROLING ROAD
13	PTZ 38 (CCTV)	135	PTZ	3	Secure	2020-2021	WAY TO GATE NO. 3 BOUNDARY
14	HRC 38 (CCTV)	224	HRC	3	Secure	2020-2021	WELL SIDE CAMERA
15	PTZ 34 (CCTV)	162	PTZ	3	Secure	2020-2021	CUSTOM PETROLING ROAD
16	HRC 39 (CCTV)	224	HRC	3	Secure	2020-2021	G I SOUTH SIDE
17	HRC 27 (CCTV)	212	HRC	3	Secure	2020-2021	SDF 3 NORTH SIDE
18	HRC 37 (CCTV)	23	HRC	3	Secure	2020-2021	SDF 3 SOUTH SIDE
19	PTZ 31 (CCTV)	165	PTZ	3	Secure	2020-2021	STP BOUNDARY
20	PTZ 33 (CCTV)	164	PTZ	3	Secure	2020-2021	STP BOUNDARY

Map of CCTV Camera's in SECTOR -4



- Legend**
- ▲ Gates
 - CCTV CAMERA TYPE**
 - HRC
 - PTZ
 - Compound_Wall
 - Road Edge
 - Divider
 - Sectoral Boundary**
 - Sector I
 - Sector II
 - Sector III
 - Sector IV
 - Sector V
 - Sector VI

1		21-12-2021	S.R.	S.W.	R.D.	
Rev No	Status	Date	Drawn By	Checked By	Approved By	Description
Project Title						
CCTV CAMERA'S IN SECTOR - 4						
Client						
SEEPZ - SPECIAL ECONOMIC ZONE						
Drawn						
Date						
Checked						
Date						
Approved						
Date						
Project No.						
Drawing No.						
Scale						
1 CM = 11 M						
Rev. No.						
Sheet No.						
GEOINFO SERVICES						
Unit No 1, Building No 3, Sector 3, Mi 1 Industrial Business Park, Malape, Navi Mumbai						

1 centimeter = 11 meters

0 50 100 Meters

Details of CCTV Camera's in SECTOR - 4							
Sr. No.	Name	IP Type	Sectors	Specification	MFG. Date	Location	
1	PTZ 56 (CCTV)	131	PTZ	4	Securaya	2020-2021	NEAR WATCH TOWER 4 BOUNDARY
2	PTZ 10 (CCTV)	149	PTZ	4	Panasonic	2014	NEAR MULTISTORY BOUNDARY
3	HRC 44 (CCTV)	230	HRC	4	Securaya	2020-2021	GATE NO. 1 MAIN ROAD
4	HRC 41 (CCTV)	227	HRC	4	Securaya	2020-2021	NEAR WELL
5	PTZ 11 (CCTV)	160	PTZ	4	Panasonic	2014	SDF 1 BOUNDARY WALL
6	HRC 42 (CCTV)	228	HRC	4	Securaya	2020-2021	SDF 1 EAST SIDE
7	PTZ 55 (CCTV)	238	PTZ	4	Securaya	2020-2021	WAY TO NO. 3 MAIN ROAD
8	HRC 19 (CCTV)	204	HRC	4	Securaya	2020-2021	SDF 2 EAST SIDE
9	HRC 16 (CCTV)	201	HRC	4	Hikvision	2020	SDF 3 NORTH SIDE
10	HRC 18 (CCTV)	203	HRC	4	Securaya	2020-2021	SDF 3 WEST SIDE
11	HRC 21 (CCTV)	206	HRC	4	Securaya	2020-2021	SDF 3 NORTH SIDE
12	HRC 20 (CCTV)	205	HRC	4	Securaya	2020-2021	MULTISTORY NORTH SIDE
13	HRC 22 (CCTV)	207	HRC	4	Securaya	2020-2021	MULTISTORY NORTH SIDE
14	HRC 23 (CCTV)	208	HRC	4	Securaya	2020-2021	MULTISTORY NORTH SIDE
15	HRC 25 (CCTV)	202	HRC	4	Securaya	2020-2021	ICH CANTEN
16	HRC 24 (CCTV)	209	HRC	4	Securaya	2020-2021	SDF 1 NORTH SIDE
17	HRC 46 (CCTV)	232	HRC	4	Hikvision	2020	SDF 1 WEST SIDE
18	HRC 43 (CCTV)	229	HRC	4	Securaya	2020-2021	SDF 1 SOUTH SIDE

Map of CCTV Camera's in SECTOR -5



Legend

▲ Gates

CCTV CAMERA

TYPE

● HRC

● PTZ

— Compound_Wall

— Road Edge

— Divider

Sectoral Boundary

Sector No

● Sector I

● Sector II

● Sector III

● Sector IV

● Sector V

● Sector VI

1	21-12-2023	S.R.	S.W.	R.D.	
Rev. No	Status	Date	Drawn By	Checked By	Approved By
Project Title					
CCTV CAMERA'S IN SECTOR - 5					
Client					
SEEPZ - SPECIAL ECONOMIC ZONE					
Diagram					
Date					
Chkd					
Appr.					
Date					
Project No.					
Drawing No.					
Scale					
Rev. No.					
Sheet No.					
1					
GEOINFO SERVICES					
Unit No 1, Building No 3, Sector 3, Midtown Business Park, Malape, Navi Mumbai					

1 centimeter = 13 meters

0 50 100 Meters

Details of CCTV Camera's in SECTOR - 5						
Sr. No.	Name	IP Type	Sector	Specification	MFG. Date	Location
1	PTZ 09 (CCTV)	151 PTZ	5	Secure	2020-2021	NEAR WATCH TOWER 4 BOUNDARY
2	PTZ 40 (CCTV)	157 PTZ	5	Secure	2020-2021	WAY TO GATE NO 3 ROAD
3	PTZ 41 (CCTV)	158 PTZ	5	Secure	2020-2021	WAY TO GATE NO 3 ROAD
4	PTZ 42 (CCTV)	154 PTZ	5	Secure	2020-2021	WAY TO GATE NO 3 ROAD
5	HRC 07 (CCTV)	093 HRC	5	Secure	2020-2021	SDF 4 WEST SIDE
6	HRC 08 (CCTV)	094 HRC	5	Secure	2020-2021	SDF 4 EAST SIDE
7	HRC 10 (CCTV)	095 HRC	5	LG	2024	WAY TO GATE NO 3 ROAD
8	HRC 12 (CCTV)	097 HRC	5	LG	2024	SDF 3 & 4 PARKING
9	HRC 13 (CCTV)	096 HRC	5	Hikvision	2020	SDF 3 WEST SIDE
10	PTZ 06 (CCTV)	153 PTZ	5	Secure	2020-2021	SDF 3 BOUNDARY WALL
11	PTZ 07 (CCTV)	151 PTZ	5	Secure	2020-2021	SDF 4 BOUNDARY
12	PTZ 08 (CCTV)	150 PTZ	5	Secure	2020-2021	GATE NO 3 TCS BOUNDARY
13	PTZ 09 (CCTV)	151 PTZ	5	Secure	2020-2021	NEAR GATE NO 3 TCS BOUNDARY
14	HRC 14 (CCTV)	176 HRC	5	Secure	2020-2021	SDF 3 EAST SIDE
15	PTZ 39 (CCTV)	158 PTZ	5	Secure	2020-2021	WAY TO GATE NO 3 ROAD
16	HRC 01 (CCTV)	090 HRC	5	LG	2024	GATE NO 3 ROAD CAMERA
17	HRC 06 (CCTV)	091 HRC	5	Secure	2020-2021	SDF 4 NORTH SIDE
18	HRC 09 (CCTV)	094 HRC	5	Secure	2020-2021	SDF 4 SOUTH SIDE
19	HRC 11 (CCTV)	096 HRC	5	Secure	2020-2021	SDF 3 NORTH SIDE
20	HRC 15 (CCTV)	094 HRC	5	Secure	2020-2021	SDF 4 NORTH SIDE
21	DOME 52 (CCTV)	55 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 ENTRY
22	DOME 54 (CCTV)	54 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 ENTRY
23	DOME 51 (CCTV)	55 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 ENTRY
24	DOME 53 (CCTV)	55 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 BAGGAGE SCANNER
25	DOME 70 (CCTV)	70 PTZ	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 ENTRY VEHICLE
26	DOME 55 (CCTV)	55 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 EXIT
27	DOME 56 (CCTV)	55 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 BAGGAGE SCANNER
28	DOME 58 (CCTV)	56 HRC	3 (Gate no 3)	Secure	2020-2021	GATE NO 3
29	DOME 59 (CCTV)	56 PTZ	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 EXIT VEHICLE
30	DOME 57 (CCTV)	55 PTZ	3 (Gate no 3)	Secure	2020-2021	GATE NO 3 VEHICLE

Map of CCTV Camera's in SECTOR -6



- Legend**
- ▲ Gates
 - CCTV CAMERA TYPE**
 - HRC
 - PTZ
 - Compound_Wall
 - Road Edge
 - Divider
 - Sectoral Boundary**
 - Sector I
 - Sector II
 - Sector III
 - Sector IV
 - Sector V
 - Sector VI

1		21-12-2022	S.R.	S.W.	R.D.	
Rev. No	Status	Date	Drawn By	Checked By	Approved By	Description
Project Title						
CCTV CAMERA'S IN SECTOR - 6						
Client						
SEEPZ - SPECIAL ECONOMIC ZONE						
Drawn						
Date						
Chief						
Date						
Project No.						
Drawing No.						
Scale						
Rev. No.						
Sheet No.						
GEOINFO SERVICES						
Unit No 1, Building No 3, Sector 3, Millets Business Park, Mahape, Navi Mumbai						

1 centimeter = 12 meters

0 50 100 Meters

Details of CCTV Camera's in SECTOR - 6							
Sr.No	Name	IP	Type	Sectors	Specification	MFG. Date	Location
1	PTZ 49 (CCTV)	1151	PTZ	6	Securaye	20-20-2021	WAY TO GATE NO. 3 BOUNDARY
2	HRC 04 (CCTV)	1189	HRC	6	LG	2014	GATE NO. 3 ROAD CAMERA
3	PTZ 03 (CCTV)	1154	PTZ	6	Securaye	20-20-2021	SEEPZ ++ BOUNDARY
4	HRC 01 (CCTV)	1186	HRC	6	Securaye	20-20-2021	NEAR KOK
5	PTZ 30 (CCTV)	1133	PTZ	6	Securaye	20-20-2021	NEAR WATCH TOWER 2
6	PTZ 40 (CCTV)	1181	PTZ	6	Securaye	20-20-2021	NEAR WATCH TOWER 3
7	PTZ 48 (CCTV)	1183	PTZ	6	Securaye	20-20-2021	NEAR ZYCUS BOUNDARY
8	HRC 02 (CCTV)	1187	HRC	6	Securaye	20-20-2021	FIRE BRIGADE ROAD
9	HRC 03 (CCTV)	1188	HRC	6	LG	2014	SUNCITY CAMERA
10	PTZ 44 (CCTV)	1179	PTZ	6	Securaye	20-20-2021	AHEAD OF FINE JEWELRY
11	PTZ 45 (CCTV)	1180	PTZ	6	Securaye	20-20-2021	SANGHVI JEWELRY BOUNDARY
12	PTZ 46 (CCTV)	1233	PTZ	6	Securaye	20-20-2021	SB & T BOUNDARY
13	PTZ 47 (CCTV)	1182	PTZ	6	Securaye	20-20-2021	BEHIND ZYCUS CAMPUS
14	PTZ 01 (CCTV)	1185	PTZ	6	Securaye	20-20-2021	BEHIND KOK BOUNDARY
15	PTZ 02 (CCTV)	1140	PTZ	6	Securaye	20-20-2021	OUT SIDE KOK BOUNDARY
16	PTZ 04 (CCTV)	1153	PTZ	6	Securaye	20-20-2021	NEAR GATE NO. 3 BOUNDARY

**Details of Existing and Proposed structure of CCTV network along with the
notification of new 25 locations**

OPTICAL CABLE NETWORK OF SEEPZ- SEZ



- Legend**
- Gates
 - SW
 - Proposed CCTV
- CCTV CAMERA TYPE**
- HRC
 - PTZ
- STRUCTURE**
- Compound_Wall
 - Road Edge
 - Optical_Cable_for_SW
 - Cable for proposed Camera
- Optical Cable From**
- Gate No. 1
 - Gate No. 2
 - Gate No. 3
 - SW 01
 - SW 02
 - SW 03
 - SW 04
 - SW 05
 - SW 06
 - SW 07
 - SW 08
 - SW 09
 - SW 10
- Sectoral Boundary**
- Sector I
 - Sector II
 - Sector III
 - Sector IV
 - Sector V
 - Sector VI

DETAILS OF EXISTING CAMERA'S

Details Measurements of Optical Cable Network									
From SW to CCTV Camera's									
No.	From Sector	To CCTV Camera's	Length (m)	Camera Type	Camera No.	Camera Type	Camera No.	Camera Type	Camera No.
1	Sector I	Gate No. 1	100.00	HRC	1	HRC	1	HRC	1
2	Sector I	Gate No. 2	100.00	HRC	2	HRC	2	HRC	2
3	Sector I	Gate No. 3	100.00	HRC	3	HRC	3	HRC	3
4	Sector I	SW 01	100.00	HRC	4	HRC	4	HRC	4
5	Sector I	SW 02	100.00	HRC	5	HRC	5	HRC	5
6	Sector I	SW 03	100.00	HRC	6	HRC	6	HRC	6
7	Sector I	SW 04	100.00	HRC	7	HRC	7	HRC	7
8	Sector I	SW 05	100.00	HRC	8	HRC	8	HRC	8
9	Sector I	SW 06	100.00	HRC	9	HRC	9	HRC	9
10	Sector I	SW 07	100.00	HRC	10	HRC	10	HRC	10
11	Sector I	SW 08	100.00	HRC	11	HRC	11	HRC	11
12	Sector I	SW 09	100.00	HRC	12	HRC	12	HRC	12
13	Sector I	SW 10	100.00	HRC	13	HRC	13	HRC	13
14	Sector II	Gate No. 1	100.00	HRC	14	HRC	14	HRC	14
15	Sector II	Gate No. 2	100.00	HRC	15	HRC	15	HRC	15
16	Sector II	Gate No. 3	100.00	HRC	16	HRC	16	HRC	16
17	Sector II	SW 01	100.00	HRC	17	HRC	17	HRC	17
18	Sector II	SW 02	100.00	HRC	18	HRC	18	HRC	18
19	Sector II	SW 03	100.00	HRC	19	HRC	19	HRC	19
20	Sector II	SW 04	100.00	HRC	20	HRC	20	HRC	20
21	Sector II	SW 05	100.00	HRC	21	HRC	21	HRC	21
22	Sector II	SW 06	100.00	HRC	22	HRC	22	HRC	22
23	Sector II	SW 07	100.00	HRC	23	HRC	23	HRC	23
24	Sector II	SW 08	100.00	HRC	24	HRC	24	HRC	24
25	Sector II	SW 09	100.00	HRC	25	HRC	25	HRC	25
26	Sector II	SW 10	100.00	HRC	26	HRC	26	HRC	26
27	Sector III	Gate No. 1	100.00	HRC	27	HRC	27	HRC	27
28	Sector III	Gate No. 2	100.00	HRC	28	HRC	28	HRC	28
29	Sector III	Gate No. 3	100.00	HRC	29	HRC	29	HRC	29
30	Sector III	SW 01	100.00	HRC	30	HRC	30	HRC	30
31	Sector III	SW 02	100.00	HRC	31	HRC	31	HRC	31
32	Sector III	SW 03	100.00	HRC	32	HRC	32	HRC	32
33	Sector III	SW 04	100.00	HRC	33	HRC	33	HRC	33
34	Sector III	SW 05	100.00	HRC	34	HRC	34	HRC	34
35	Sector III	SW 06	100.00	HRC	35	HRC	35	HRC	35
36	Sector III	SW 07	100.00	HRC	36	HRC	36	HRC	36
37	Sector III	SW 08	100.00	HRC	37	HRC	37	HRC	37
38	Sector III	SW 09	100.00	HRC	38	HRC	38	HRC	38
39	Sector III	SW 10	100.00	HRC	39	HRC	39	HRC	39
40	Sector IV	Gate No. 1	100.00	HRC	40	HRC	40	HRC	40
41	Sector IV	Gate No. 2	100.00	HRC	41	HRC	41	HRC	41
42	Sector IV	Gate No. 3	100.00	HRC	42	HRC	42	HRC	42
43	Sector IV	SW 01	100.00	HRC	43	HRC	43	HRC	43
44	Sector IV	SW 02	100.00	HRC	44	HRC	44	HRC	44
45	Sector IV	SW 03	100.00	HRC	45	HRC	45	HRC	45
46	Sector IV	SW 04	100.00	HRC	46	HRC	46	HRC	46
47	Sector IV	SW 05	100.00	HRC	47	HRC	47	HRC	47
48	Sector IV	SW 06	100.00	HRC	48	HRC	48	HRC	48
49	Sector IV	SW 07	100.00	HRC	49	HRC	49	HRC	49
50	Sector IV	SW 08	100.00	HRC	50	HRC	50	HRC	50
51	Sector IV	SW 09	100.00	HRC	51	HRC	51	HRC	51
52	Sector IV	SW 10	100.00	HRC	52	HRC	52	HRC	52
53	Sector V	Gate No. 1	100.00	HRC	53	HRC	53	HRC	53
54	Sector V	Gate No. 2	100.00	HRC	54	HRC	54	HRC	54
55	Sector V	Gate No. 3	100.00	HRC	55	HRC	55	HRC	55
56	Sector V	SW 01	100.00	HRC	56	HRC	56	HRC	56
57	Sector V	SW 02	100.00	HRC	57	HRC	57	HRC	57
58	Sector V	SW 03	100.00	HRC	58	HRC	58	HRC	58
59	Sector V	SW 04	100.00	HRC	59	HRC	59	HRC	59
60	Sector V	SW 05	100.00	HRC	60	HRC	60	HRC	60
61	Sector V	SW 06	100.00	HRC	61	HRC	61	HRC	61
62	Sector V	SW 07	100.00	HRC	62	HRC	62	HRC	62
63	Sector V	SW 08	100.00	HRC	63	HRC	63	HRC	63
64	Sector V	SW 09	100.00	HRC	64	HRC	64	HRC	64
65	Sector V	SW 10	100.00	HRC	65	HRC	65	HRC	65
66	Sector VI	Gate No. 1	100.00	HRC	66	HRC	66	HRC	66
67	Sector VI	Gate No. 2	100.00	HRC	67	HRC	67	HRC	67
68	Sector VI	Gate No. 3	100.00	HRC	68	HRC	68	HRC	68
69	Sector VI	SW 01	100.00	HRC	69	HRC	69	HRC	69
70	Sector VI	SW 02	100.00	HRC	70	HRC	70	HRC	70
71	Sector VI	SW 03	100.00	HRC	71	HRC	71	HRC	71
72	Sector VI	SW 04	100.00	HRC	72	HRC	72	HRC	72
73	Sector VI	SW 05	100.00	HRC	73	HRC	73	HRC	73
74	Sector VI	SW 06	100.00	HRC	74	HRC	74	HRC	74
75	Sector VI	SW 07	100.00	HRC	75	HRC	75	HRC	75
76	Sector VI	SW 08	100.00	HRC	76	HRC	76	HRC	76
77	Sector VI	SW 09	100.00	HRC	77	HRC	77	HRC	77
78	Sector VI	SW 10	100.00	HRC	78	HRC	78	HRC	78
79	Sector VII	Gate No. 1	100.00	HRC	79	HRC	79	HRC	79
80	Sector VII	Gate No. 2	100.00	HRC	80	HRC	80	HRC	80
81	Sector VII	Gate No. 3	100.00	HRC	81	HRC	81	HRC	81
82	Sector VII	SW 01	100.00	HRC	82	HRC	82	HRC	82
83	Sector VII	SW 02	100.00	HRC	83	HRC	83	HRC	83
84	Sector VII	SW 03	100.00	HRC	84	HRC	84	HRC	84
85	Sector VII	SW 04	100.00	HRC	85	HRC	85	HRC	85
86	Sector VII	SW 05	100.00	HRC	86	HRC	86	HRC	86
87	Sector VII	SW 06	100.00	HRC	87	HRC	87	HRC	87
88	Sector VII	SW 07	100.00	HRC	88	HRC	88	HRC	88
89	Sector VII	SW 08	100.00	HRC	89	HRC	89	HRC	89
90	Sector VII	SW 09	100.00	HRC	90	HRC	90	HRC	90
91	Sector VII	SW 10	100.00	HRC	91	HRC	91	HRC	91
92	Sector VII	Gate No. 1	100.00	HRC	92	HRC	92	HRC	92
93	Sector VII	Gate No. 2	100.00	HRC	93	HRC	93	HRC	93
94	Sector VII	Gate No. 3	100.00	HRC	94	HRC	94	HRC	94
95	Sector VII	SW 01	100.00	HRC	95	HRC	95	HRC	95
96	Sector VII	SW 02	100.00	HRC	96	HRC	96	HRC	96
97	Sector VII	SW 03	100.00	HRC	97	HRC	97	HRC	97
98	Sector VII	SW 04	100.00	HRC	98	HRC	98	HRC	98
99	Sector VII	SW 05	100.00	HRC	99	HRC	99	HRC	99
100	Sector VII	SW 06	100.00	HRC	100	HRC	100	HRC	100
101	Sector VII	SW 07	100.00	HRC	101	HRC	101	HRC	101
102	Sector VII	SW 08	100.00	HRC	102	HRC	102	HRC	102
103	Sector VII	SW 09	100.00	HRC	103	HRC	103	HRC	103
104	Sector VII	SW 10	100.00	HRC	104	HRC	104	HRC	104
105	Sector VII	Gate No. 1	100.00	HRC	105	HRC	105	HRC	105
106	Sector VII	Gate No. 2	100.00	HRC	106	HRC	106	HRC	106
107	Sector VII	Gate No. 3	100.00	HRC	107	HRC	107	HRC	107
108	Sector VII	SW 01	100.00	HRC	108	HRC	108	HRC	108
109	Sector VII	SW 02	100.00	HRC	109	HRC	109	HRC	109
110	Sector VII	SW 03	100.00	HRC	110	HRC	110	HRC	110
111	Sector VII	SW 04	100.00	HRC	111	HRC	111	HRC	111
112	Sector VII	SW 05	100.00	HRC	112	HRC	112	HRC	112
113	Sector VII	SW 06	100.00	HRC	113	HRC	113	HRC	113
114	Sector VII	SW 07	100.00	HRC	114	HRC	114	HRC	114
115	Sector VII	SW 08	100.00	HRC	115	HRC	115	HRC	115
116	Sector VII	SW 09	100.00	HRC	116	HRC	116	HRC	116
117	Sector VII	SW 10	100.00	HRC	117	HRC	117	HRC	117
118	Sector VII	Gate No. 1	100.00	HRC	118	HRC	118	HRC	118
119	Sector VII	Gate No. 2	100.00	HRC	119	HRC	119	HRC	119
120	Sector VII	Gate No. 3	100.00	HRC	120	HRC	120	HRC	120
121	Sector VII	SW 01	100.00	HRC	121	HRC	121	HRC	121
122	Sector VII	SW 02	100.00	HRC	122	HRC	122	HRC	122
123	Sector VII	SW 03	100.00	HRC	123	HRC	123	HRC	123
124	Sector VII	SW 04	100.00	HRC	124	HRC	124	HRC	124
125	Sector VII	SW 05	100.00	HRC	125	HRC	125	HRC	125
126	Sector VII	SW 06	100.00	HRC	126	HRC	126	HRC	126
127	Sector VII	SW 07	100.00	HRC	127	HRC	127	HRC	127
128	Sector VII	SW 08	100.00	HRC	128	HRC	128	HRC	128
129	Sector VII	SW 09	100.00	HRC	129	HRC	129	HRC	129
130	Sector VII	SW 10	100.00	HRC	130	HRC	130	HRC	130
131	Sector VII	Gate No. 1	100.00	HRC	131	HRC	131	HRC	131
132	Sector VII	Gate No. 2	100.00	HRC	132	HRC	132	HRC	132
133	Sector VII	Gate No. 3	100.00	HRC	133	HRC	133	HRC	133
134	Sector VII	SW 01	100.00	HRC	134	HRC	134	HRC	134
135	Sector VII	SW 02	100.00	HRC	135	HRC	135	HRC	135
136	Sector VII	SW 03	100.00	HRC	136	HRC	136	HRC	136
137	Sector VII	SW 04	100.00	HRC	137	HRC	137	HRC	137
138	Sector VII	SW 05	100.00	HRC	138	HRC	138	HRC	138
139	Sector VII	SW 06	100.00	HRC	139	HRC	139	HRC	139
140	Sector VII	SW 07	100.00	HRC	140	HRC	140	HRC	140
141	Sector VII	SW 08	100.00	HRC	141	HRC	141	HRC	141
142	Sector VII	SW 09	100.00	HRC	142	HRC	142	HRC	142
143	Sector VII	SW 10	100.00	HRC	143	HRC	143	HRC	143
144	Sector VII	Gate No. 1	100.00	HRC	144	HRC	144	HRC	144
145	Sector VII	Gate No. 2	100.00	HRC	145	HRC	145	HRC	145
146	Sector VII	Gate No. 3	100.00	HRC	146	HRC	146	HRC	146
147	Sector VII	SW 01	100.00	HRC	147	HRC	147	HRC	147
148	Sector VII	SW 02	100.00	HRC	148	HRC	148	HRC	148
149	Sector VII	SW 03	100.00	HRC	149	HRC	149	HRC	149
150	Sector VII	SW 04	100.00	HRC	150	HRC	150	HRC	150

Section 5 –Terms of References

1) Project Objective

This project has an objective to implement holistic and integrated video surveillance system which includes Command and Control centre, Video Management Software and Video Analytics for the seven sectors of the SEEPZ SEZ. This system shall also integrate with surveillance systems of different stakeholders with the objective of enhancing safety and security in the zone. The system shall help-

- To provide assistance to stakeholders at the time of emergency
- To provide facilities of Ambulance, Police Van, Fire Brigade to the staff inside the zone.
- To effectively manage Road Traffic or un-usual trespassing.
- To help in investigation of crime/thief inside the zone.
- Help in preventing, detecting and dealing with criminal activities with minimum turnaround time.
- Provide alerts and video analytics for counter threats.
- Monitoring of suspicious people, vehicles, objects etc. with respect to protecting life and property and maintaining law and order in the zone.
- Continuous monitoring of some important locations/ public places in the zone like area near to peripheral walls, lakes and other public places for keeping eye on regular activities & for emergency support.
- Real time view of the cameras to be provided at stipulated locations like Development Commissioners cabin, Jt. Development Commissioners cabin, Specified Officer Customs, Security Officer and Estate manager, and the operator should be responsible for feeding the real time and incident captured videos with GIS locations to these above mentioned locations. Further on request the higher officials may demand any video feeds from CCC.
- Signages at every CCTV that says “Caution: You are under CCTV Electronic Surveillance” – Bilingual (English and Hindi) with SEEPZ SEZ Logo and to be maintained till the contract tenure ends.
- OFC Land Marking for CCTV cable layout.

The Proposed video surveillance system will enable the above by using VMS and Video analytics. This system will provide

- Alerts/ feedback to the SEEPZ SEZ Administration about abnormal movements/ suspicious

objects etc.

- Better Management of Security breaches based on alerts received from system
- Improved turnaround time in responding to any investigation case, faster access to evidence in case of security breach, law violation in the prescribed areas.

2) Project Overview

With ever growing size of the zone, ensuring high levels of physical security without significantly increasing the number of security personnel or budget seems to be a daunting task. A heightened sense of security and ever increasing challenges require new tactics with more access to integrated system and centralized information. This alarms the need of designing and implementing Command and Control centers for critical infrastructure across different sectors.

A **command and control center (CCC)** in SEEPZ SEZ Surveillance system refers to a secure room or building in a government that operates as the surveillance monitoring center, coordination office and alarm monitoring center all in one. The CCC is the “nerve center” - a central administrative location from where overall assets and activities are monitored and managed. The command and control centers would be operated by SEEPZ Security Division.

SEEPZ SEZ Surveillance system would involve installation of world class high definition fixed and PTZ IP cameras, capable of providing optical zoom, to obtain quality video stream day in and day out for the Command & Control Center. A diversified IP based network infrastructure backbone would be deployed involving high speed fiber optics and wireless technologies to carry video from cameras to the command and control center. The cameras and the network bandwidth required to carry the audio-video feed would be arranged. The CCC would be equipped with huge video walls, workstations, video management servers and video data storage clusters of hundred terabytes.

Initially 155 cameras in campus and more 25 cameras are required to be deployed by the selected service provider at designated areas running 24x7 and effectively monitored at Command & Control Center with storage of historical video data of minimum 90 days. Round the clock available network surveillance and technical support staff ensures high functionality of the system. The solution should include custom built Incident Management solution software to retain incident information and generate reports consisting of various statistical data.

Besides helping in crime control, Command & Control Center would play a crucial role in the facility of integrating Police (100), Fire (101) and Health (102/108) Services. Coordination with these agencies is critical. The operators within CCC should make prompt and accurate decisions as per requirement of the incident, using the available technology. The center should also be able to group locations and connect surveillance systems in order to respond quickly to any emergency.

The proposed integrated video surveillance system involves various types of CCTV cameras located at different locations in zone, Video Management Software and Video Analytics. The video surveillance data from various cameras deployed will be stored in data center and monitored at Command and control center (CCC).

Command and Control Center and Data Centre	<ul style="list-style-type: none"> • Interior Work of CCC • Furniture • WorkStation • Video Wall • Local Area Networking • Security System • Electric cabling • Installation and Configuration • Video Screen at Officials cabin • Maintenance • Data Center : <ul style="list-style-type: none"> ○ Servers ○ Storage ○ Rack and Accessories ○ Physical and Security Equipment's ○ Air Conditioning ○ Power with backup ○ Network equipments ○ Installation and Configuration ○ Maintenance
Storage of feeds	Min. 90 days storage of video feeds
CCTV Cameras	155 + Extra 25 HD cameras to be installed at the location marked in the MAP attached to RFP
22 Nos. Lift Cameras	New wireless cameras to be installed at 22 different lifts working inside the zone.
Viewing and recording video frames	Max. 20 fps during movement period andMax. 10 fps during no movement period
Signages & Land Marks	To be installed and maintained by the System Integrator for each CCTV and wire network.

Collaborative Monitoring	The CCTV Project shall be equipped to access the camera feeds of about 20 odd large units from the zone, which have atleast 50+ cameras.
Maintenance and Support Period	For 3 years from the date of Go-Live

3) Objectives and Scope of Work

The summary of scope of work under SEEPZ Surveillance project is as below:

1. To establish command & control center (CCC) in SEEPZ SEZ. Supply of furniture, video wall, workstation, access switch, rack, connecting cables, LAN cabling, electric cabling, new or replaceable CCTV Cameras and other components etc. in command and control center.
2. To establish Data center in SEEPZ SEZ. Supply of routers, firewall, switches, patch panel, racks, storage, servers, access control, fire suppression, air conditioning, UPS, Maintaining existing DG sets, LAN cabling, electric cabling, other connecting cables etc. in data center.
3. To establish interface link between CCC and Data center using fibre optic cable.
4. To provide FMS support for CCC and data center for three years from date of Go-live of command center.
5. The complete network connectivity in data center has to be on 10G bandwidth. Equipment in data center viz. servers, storage, router, firewall and switches are to be connected using UTP CAT 6A cable for 10G network. While network connectivity in CCC would be on 1G bandwidth.
6. To store 24 x 7 video feed from all cameras installed in the system for atleast 90 days. Important incidents would be required to be stored for longer duration as per requirement.
7. Year wise recorded video dump should be stored in a magnetic tape or bluray drive and handed over to the store incharge, SEEPZ SEZ for record keeping after every 90 days.
8. To integrate video feed from cameras established by various other suppliers at SDFs, G&J Complex, other plots etc. All necessary equipment like encoders etc. required for integration of video to be provided by selected bidder.
9. The All equipment and CCTV cameras that are existing and newly replaced during the CCC development all would be under warranty for the entire contract period. The selected bidder is expected to take the cameras under comprehensive maintenance from second year of installation of cameras. The start date of AMC shall be provided by SEEPZ SEZ.
10. The network bandwidth between cameras and data center shall be arranged by SEEPZ SEZ. Uptime of video feed shall be governed through service level agreement with the

concerned network bandwidth service provider.

11. The selected bidder shall supply following software as per features mentioned in the tender :
 - a. Video Management software
 - b. Incident Management software
 - c. GIS Map Visualization software
 - d. Asset Management software
 - e. Threat level management
 - f. Video Synopsis
12. The SEEPZ surveillance system should integrate with
 - a. Body cameras/Vehicle mounted cameras,
 - b. Mobile feed being provided by field staff/Security and/or unit holders.
 - c. GIS map to be provided by SEEPZ SEZ, Google Map and Bing Map
13. The SEEPZ surveillance system should support integration of following as and when required :
 - a. Speed violation system and ANPR cameras at select crossing as decided by SEEPZ SEZ.
 - b. Smart Poles with Panic button through I/O port of camera.
 - c. Audio application for detection of thief.
14. The CCC should be able to provide remote feed on web to any location like DC office, Ministry etc. as and when required.
15. The selected bidder has to maintain telephone numbers of hospitals, fire stations, police stations, Electric sub-station, Ambulances etc. as part of the system to be used by the operators working in the command and control room.
16. The bidder is responsible for operationalizing the entire solution. Any additional equipment required to make the entire solution operational shall have to be provided by the selected bidder at no additional cost to the purchaser.
17. Service provider will maintain adequate inventory of all the spares (Encoders, Fixed/PTZ Cameras, Hard disks of Servers & workstations, mother boards and 24VAC/2.5A, 24AC/1.5A, 12VDC/1.5A Power adapters etc) for making instant replacement of the faulty

or damaged item.. Spares shall be from OEM or of very high quality and will be procured with the prior approval of SEEPZ_SEZ. Further any item or spares not mentioned in the scope of work, but necessarily required for smooth operation of the CCTV System, shall be in the scope of the contractor and will be provided without any extra cost. Replacement and repair of any spare/items shall be free of cost and is a part of CAMC.

18. All spares used for rectification of faults shall be genuine and licensed as mentioned in the OEM's service manual. If any original spare is currently not available with the OEM, then the firm may use compatible upgraded versions of the same spare available with the OEM or use a compatible equivalent spare of any other reputed make by taking prior approval of the Engineer-in-Charge of SEEPZ-SEZ Authority. The spares used for rectification of a fault shall not affect the original performance of the system or alter the original parameters and technical characteristics of the system in anyway. If Fixed/PTZ Dome Cameras cannot be repaired, the same shall be replaced with new ones having the same or better specifications. The replaced new Fixed/PTZ dome cameras and accessories will become the property of SEEPZ-SEZ Authority.
19. Signages at every CCTV that says "Caution: You are under CCTV Electronic Surveillance" – Bilingual (English and Hindi) with SEEPZ SEZ Logo and to be maintained till the contract tenure ends.
20. OFC Land Marking for CCTV cable layout.

A part of the control room, there can be dedicated for storing and handling video feed being received from cameras installed inside the zone. This can be called **data centre**. The data center size would be minimum 2 sq. mtrs and is designed to occupy at least 6 to 10 server space. This data would be further used for proper analysis. Bidder has to deploy at least 1 FMS personnel's around the clock (24 x 7) to manage the data center.

It is proposed to host the Server Side Infrastructure in the Data Center area of CCC. System Integrator shall submit the suitable design of datacenter to meet the project requirements to tendering authority/department for approval at design stage of the project.

Data center shall also host SLA monitoring and Helpdesk Management tool. The System should have capability to access important cameras (identified by SEEPZ SEZ during implementation period) at CCC even if the Data Center is unavailable.

The key components of the Application Portfolio are Video Management System, Video Analytics System and the customized Dashboard for various categories of personnel. System should support following Analytics:

- Unidentified object detection
- Intruder detection
- Camera tampering detection
- Virtual Fence / Tress Passing / Tripwire
- People / Mass movement

- Wrong direction monitoring

Video Analytics system shall provide mechanism to allow alerts to be raised in a customized manner for CCC, System shall be capable to avoid generation of false alarms.

The VMS shall allow access of the video feeds on Tablets/iPads/select devices on user request. Such an access shall be based on MAC Address authentication over SSL (Secure Socket Layer) and/or by creating a VPN (Virtual Private Network). In addition, the VMS should be able to stream feeds from authorized Tablets/iPads/mobiles/select devices on the Video Wall.

The suite of software modules would be required to be scaled up to support any number of cameras, NVRs, control rooms and client operators and would have multiple redundancy and security level options.

Thus a command & control center (Data center) is required to be equipped with:

4) Software:

- Video Management System Software - with license for recording/viewing live feed from Camera
- Failover license
- Asset Management software for health management and inventory control of assets
- Alarm Management
- Incident Management
- Video Synopsis
- Praveesh Application developed and owned by SEEPZ SEZ
- ERP developed and owned by SEEPZ SEZ
- Incident status monitoring software
- CCC management software
- Installation and Configuration
- Maintenance

5) Data Center:

- Servers
- Storage
- Rack and Accessories
- Air Conditioning
- Power with backup
- Network Switch
- Installation & Configuration
- Maintenance

6) Collaborative Monitoring

- Bidder has to provide a solution which will have a collaborative framework for receiving video feeds from various systems and sub-systems of stakeholders/units inside the zone.
- VMS shall have provision to ensure that video feeds are continuously streamed on one of

the cubes of the Video Wall.

7) Helpdesk and Facility Management Services

Bidder has to provide Facilities Management Services and shall be supported by centralized helpdesk which will work as a single point of contact for complaint management & resolution for all the users of the surveillance system. This helpdesk shall be integrated with the Enterprise Management System. The helpdesk shall be designed to meet the SLA response & resolution timelines. The calls and transaction done at the helpdesk shall be recorded for audio and all communications being done from the helpdesk. Such recording shall be stored for duration of 90 days and shall be tamper proof. Bidder shall provide certification or reference of such recording being used by SEEPZ SEZ Administration or equivalent agency for investigation purpose.

8) Training and capacity building

Bidder has to provide application and role based training to the CCC operators and supervisors of different applications like VMS, CCC, Video Analytics and GIS-ERP

S.No.	Application	Profile	No. of Resources to be trained
1.	Head of CCC- Video Analytics	Supervisor	1
2.	CCC	Operator	3 (Per Shift)

9) Information Security policy and backup policies

System Integrator shall be asked to prepare the Information Security Policy for the overall project, which would be reviewed & finalized by SEEPZ SEZ Administration & Tendering authority. It is proposed that Security policy would be submitted by the Systems Integrator within 1st quarter of the successful Final Acceptance Tests.

The Systems Integrator shall obtain ISO 27001 certification for the CCC within 2 quarters of final acceptance test. Payment from 3rd Quarter to be withheld till this certification is obtained by the successful bidder.

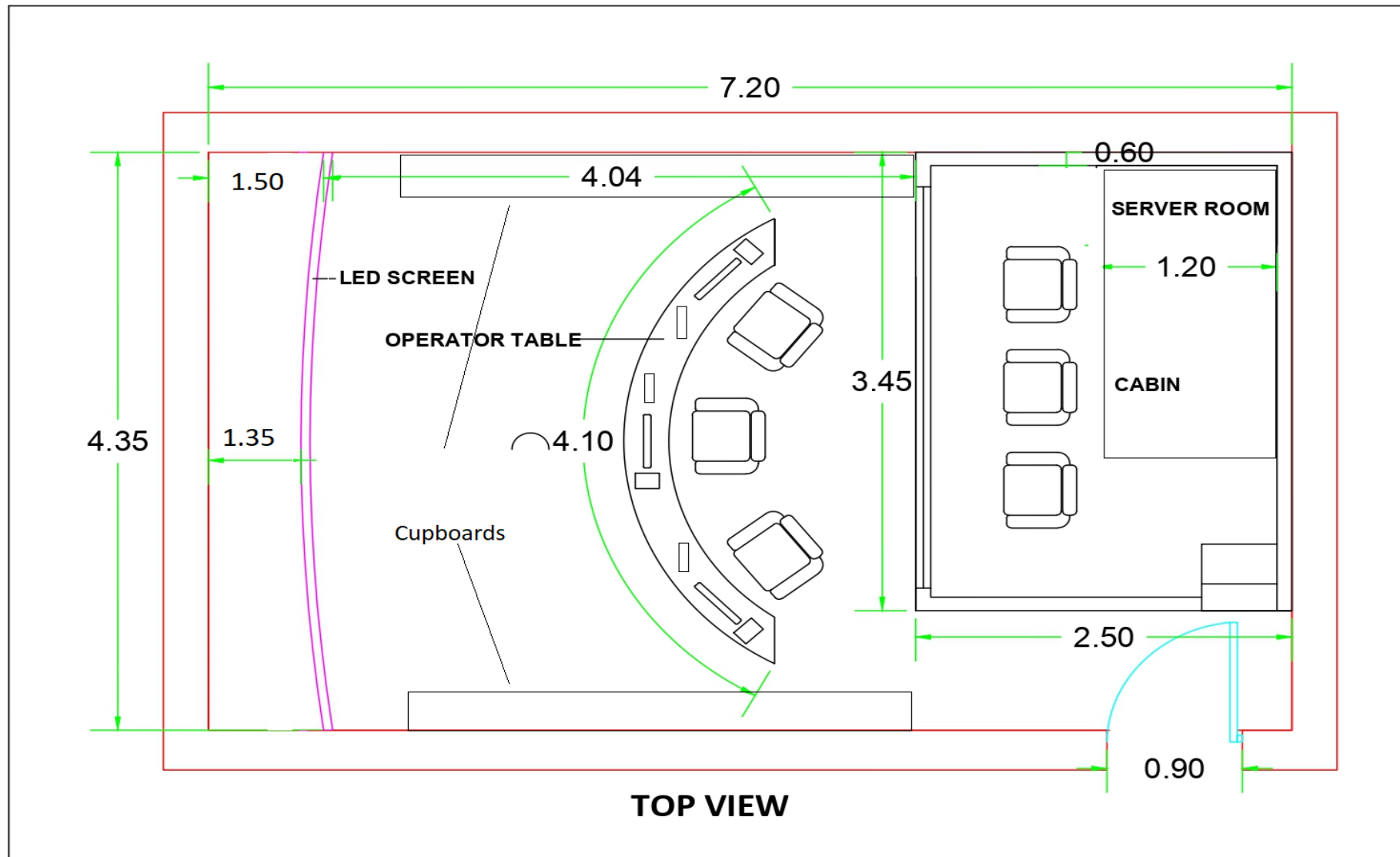
10) Civil works:

SEEPZ SEZ will provide requisite space for Command and Control Rooms. The Successful Bidder shall visit control rooms along and submit a report prepared by the service provider which would

provide Civil, Electrical and Interior Work requirements/ workplan with the technical envelop. Due to implementation of the CCC project, the electric load shall be enhanced in the building where the CCC is to be setup. The successful bidder shall report the same to SEEPZ SEZ Authority so that the Transformer and electric cable from transformer till electric meter of the building can be got changed. Service provider shall ensure timely completion of necessary civil, electrical and interior works.

The Successful Bidder shall have to undertake the work of electric and LAN cabling/erection of mast /fixing of poles/towers, if required as per requirement. The bidder shall give the drawings of the proposed civil works in AutoCAD.

Schematic Diagram of the CCC room to be referred for the Work Plan: (All Dimensions are in Meters) – Total internal area 32 sq. mtrs:



11) Electrical works:

Electrical cabling from the allotted input source and up to the equipment to be kept at each location, rack etc. as the case may be shall be the responsibility of the Successful Bidder.

To carry out installation and configuration of the electrical components as per the IS Standards. The quantity of passive items if any shall be verified by the concerned official at each site.

12) Local Area Networking:

Service provider should rework the fibre network environment of the entire SEEPZ SEZ, and maintain the redundancy so that the surveillance never stops due to wire breakdown.

Secondly subsurface OFC land marks should be provided by the service provider in specific locations throughout the zone.

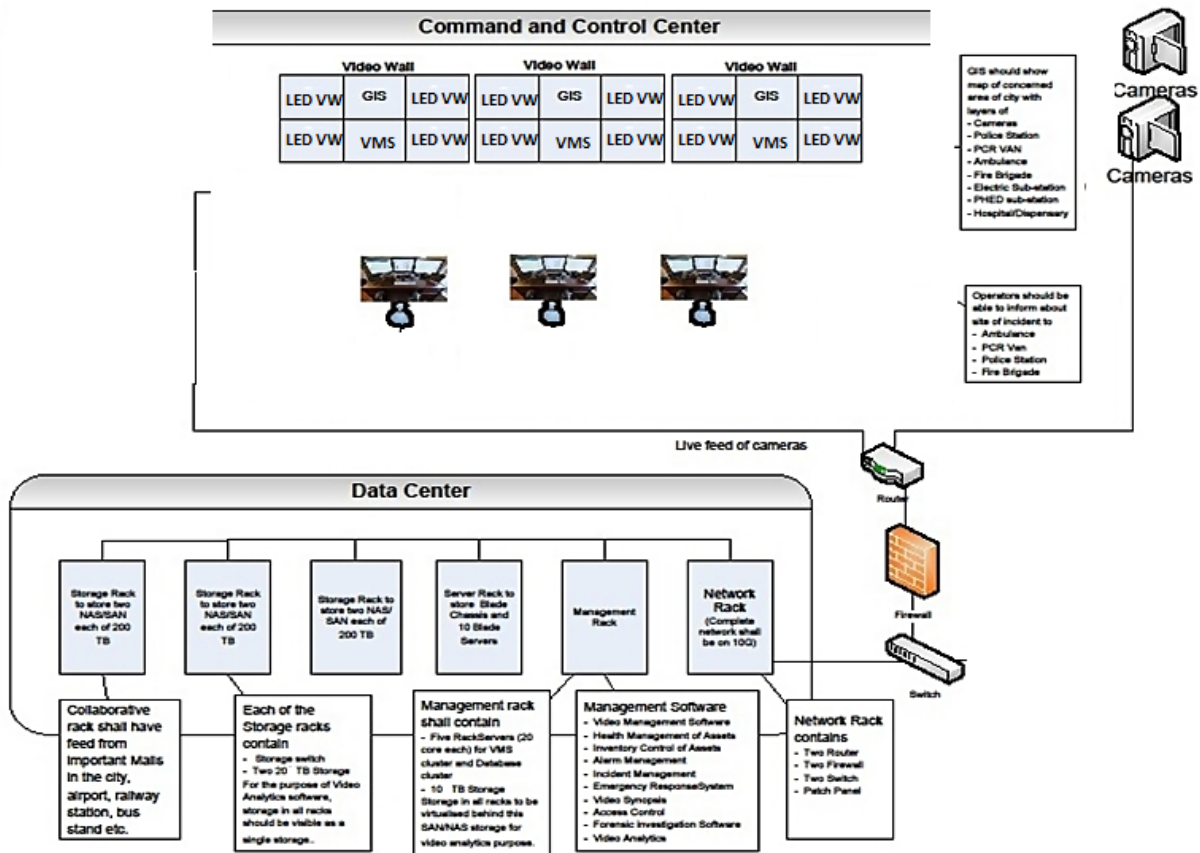
13) Major Components of CCTV Surveillance System

- i. Users: SEEPZ SEZ Security Division
- ii. Devices: (Annexure 1)

S.No.	Devices required for CCC	S.No.	Devices required for Data Center
1.	LED display for Video Wall	1.	Blade Chassis
2.	Display Controller	2.	Blade Servers for Management, Database, Analytics, Recording, NTP, Anti-virus, LDAP/AD, Backup etc.
3.	Workstation	3.	Core Router
4.	Access Switch	4.	Core Switch
5.	Display for Officials cabin for Real-time view	5.	SAN switch
6.	Joystick	6.	Firewall cum IPS/IDS
7.	Indoor Fixed Dome cameras and Extra Cameras as per RFP	7.	Usable 200 TB Storage
8.	Access Control	8.	U Rack with inbuilt cooling & fire suppression

9.	Furniture	9.	Access Control System
10.	Local Area Network Cabling(UTP CAT6)	10.	Rodent Repellent System
11.	Electrical Cabling and Telephone Connectivity	11.	Water leakage system
12.	UPS	12.	Existing DG Set Maintenance.
13.	Software :	13.	ERP (Existing)
14.	Video Management Software	14.	Comfort AC
15.	CCC Software	15.	Local Area Network Cabling (UTP CAT6A)
16.	Video Analytic Software	16.	Optical Fiber cable
17.	Pravesh Application (Existing)	17.	Electrical Cabling
18.	GIS	18.	LTO – 7 Tape library
19.	Backup/Shared file system software	19.	Fire proof enclosure for media storage
20.	Smart Poles at Terminals Gate 1, 2 & 3.	20.	Solar Panels for Smart poles

14) Broad Architecture of CCTV Surveillance System



Command and Control Centre is the SPOC (Single Point of Contact) for all videos that will be captured from CCTV's, Mobile Vans and Mobile devices. All the videos shall be stored in data center specifically designed for SEEPZ CCTV surveillance Project.

15) Functional & Operational Requirement of SEEPZ CCC:

S. No.	Functional Requirement of SEEPZ Surveillance System
1.	To receive video from CCTV camera's, Mobile Van's and Mobile devices of field staff inside the zone and display it on to video wall in real-time and store it in database for future viewing.
2.	To coordinate with external agencies like Traffic police, Dial 100, Ambulance Service-108 and Fire Services-101 as per requirement of incident.
3.	To send live videos to designated devices in real-time with GPS location of camera from which feed was received whenever required inside the cabin of the higher officials.
4.	CCC operator should have capability to send videos from selected cameras to selected LED of video wall in real-time.
5.	To receive collaborative videos from different locations and to define policy to push the videos on video wall available at that time and to store them, if required.
6.	For the purpose of video analytics features, all the storage blocks of usable 20 TB in each rack shall be integrated/ virtualized and considered as single block of storage to the Video Analytics software.

7.	One LED screen is allocated for GIS purpose to a lot of 61 cameras. This GIS screen will show GIS locations of hospitals, police stations, utility service locations, fire brigade etc.
S. No.	Operational Requirement of SEEPZ Surveillance System
1.	Camera feeds of all locations pass through router and are displayed in real time on monitors of workstation and/or video wall of Command and Control Center and simultaneously stored in data center after passing further through firewall and switch for archival purpose. Higher Government officials should also be able to access required video feed (both live/playback) from data center inside there cabin.
2.	1 workstation would be connected to 3 monitors on one working desk and provided to operator for surveillance of 61 live camera feeds. i.e. (61*3 =183)
3.	Each Operator would be responsible for 30 camera feeds.
4.	Internal flow of video within data center shall be on 10 Gigabit ethernet network and video flow in CCC shall be on 1 Gigabit network.
5.	Each operator shall be able to view 4 monitors on working desk having minimum 4/6/9 live/archived cameras feed on 1 monitor. One monitor shall display GIS map and one monitor shall be used for SOP and working on software by operator.
6.	For every 61 in one video wall containing 3 different brackets, 6 x 3 (total 18 LEDs) video wall is allocated.
8.	1 LED (55 inch or above) in each 3x2 video wall which is in lower part-center is reserved as common display and can be used by any operator for backup display or drilling down any incident.
9.	Thus 6 operators have to handle 183 live camera feeds through one video wall of 3x2 (6 LED's of 55 inches or above), 12 monitors (4 monitor for each 2 operators), telephone line and radio communication device.

16) Data Center requirement of SEEPZ surveillance system

S. No.	Data Center requirement of SEEPZ Surveillance system
1.	Data center shall be equipped with 6 racks.
2.	Out of these 6 racks available in data center, 1 rack shall be used as management cum server rack and 1 rack shall be used as network rack, 3 racks shall be used as Storage racks and 1 rack for tape library and other future expansion requirements.
3.	The management rack shall contain two blade chassis with 6 servers.
4.	Management rack shall have following management software: <ul style="list-style-type: none"> • Video Management Software • Asset management Software • Alarm Management • Incident Management System • Video Synopsis • Access Control • Video Analytics

	<ul style="list-style-type: none"> • Pravesh Application • ERP & GIS
5.	<p>Network Rack Shall contain at least following items:</p> <ul style="list-style-type: none"> • Router- 2 Nos. • Firewall cum IPS/IDS- 2 Nos. • Switch- 2 Nos. • Patch Panels
6.	<p>3 storage racks would be used to house following equipment's:</p> <ul style="list-style-type: none"> • Two Usable 10 TB Storage per rack • Out of one storage of usable 20 TB, 10 TB storage shall be used for taking backup of incidents required to be stored for a longer duration or to be used in courts. 100 TB shall be used for storing video from collaborative cameras. • All other remaining SAN storage shall be virtualized so that all storage be viewed as single storage for the purpose of video analytics.

17) Command & control center is required to be equipped with:

18) IT Components

- Video wall with flexible CCTV selection
- Workstation
- Network and Security System
- Routine and Emergency incident procedures
- Prioritized resource allocation
- Record, playback and archiving
- Video Management
- Indoor Fixed Dome Cameras for Internal Surveillance
- Managerial report generation

19) Non-IT Components

- Electrical Cabling and Necessary Illumination Devices
- Access Control System (Proximity based, for all staff)
- Full Biometric System to control entry / exit
- Office Workstations (Furniture and Fixtures)
- Comfort AC
- UPS & Maintaining existing DG Set to provide power backup to the CCC/data center
- Installation and Configuration

20) Project Timelines

S.No.	Major Milestone	Timeline	Deliverable	Timeline
1.	Kick off meeting with complete project plan. Deployment of Team with Detailed Final Layout of Command and Control Centre and data center approved from tendering authority.	Project Plan Team deployment as per RFP and Detailed Final Layout in AutoCad-3D of Command and Control Centre and data center approved from tendering authority.	Kick off meeting with complete project plan. Deployment of Team with Detailed Final Layout of Command and Control Centre and data center approved from tendering authority.	T + 1 Weeks
2.	All Civil work and Supply and Installation of DG set or UPS System Electrical wiring & Sockets, OFC and Local Area Network cabling in CCC for camera and servers Supply and installation of Tables, Cubical, Chairs, cupboards, Furniture and brackets for Video wall.	Phase completion report signed by inspection team	All Civil work and Supply and Installation of DG set or UPS System Electrical wiring & Sockets, OFC and Local Area Network cabling in CCC for camera and servers Supply and installation of Tables, Cubical, Chairs, cupboards, Furniture and brackets for Video wall.	T+ 4 Weeks
3.	Hardware: Supply and installation of Video wall. Supply and Installation of workstations, racks, servers and storage in CCC	Phase completion report signed by inspection team	Hardware: Supply and installation of Video wall. Supply and Installation of workstations, racks, servers and storage in CCC	T+ 7 Weeks
4.	Electrical, OFC and Local Area Network cabling in Zone including OFC Subsurface land Markings Installing new 25 Cameras + 22 Lift Cameras	Phase completion report signed by inspection team	Electrical, OFC and Local Area Network cabling in Zone including OFC Subsurface land Markings Installing new 23 Cameras	T+9 Weeks
5.	Software: Supply of requisite number of licenses and Implementation of VMS, CCC and video analytics software	Phase completion report signed by inspection team	Software: Supply of requisite number of licenses and Implementation of VMS, CCC and video analytics software	T+11 Weeks
6.	Setting up & implementation of Control Center, Operation Center and connectivity to all higher officials designated places.	Phase completion report signed by inspection team	Setting up & implementation of Control Center, Operation Center and connectivity to all higher officials designated places.	T+ 12 Weeks
7	On Delivery, Inspection and successful installation of remaining equipment's/items as mentioned in bill of material of RFP document	Delivery Report Installation Report Inspection Report Warranty Certificates for items supplied Network Security Audit report	On Delivery, Inspection and successful installation of remaining equipment's/items as mentioned in bill of material of RFP document	T+ 13 Weeks
8	On successful training, Documentation, FAT and Go-Live	ISO Certification 27001 FAT Completion Report	On successful training, Documentation, FAT and Go-Live	F= T+ 16 Weeks (Four Months)
9.	O & M for 3 years from FAT (Final Acceptance Testing)	F+ 3 years	Immediate Team deployment and O & M reports as mentioned in "Table for O & M reports" in scope of work	F + 3 Years

21) Payment Terms and Schedule

Payment schedule - Payments to the bidder, after successful completion of the target milestones (including specified project deliverables), would be made as under:

S. No.	Major Milestone	Deliverables	Payment
1.	Kick off meeting with complete project plan. Deployment of Team with Detailed Final Layout of Command and Control Centre and data center approved from tendering authority.	Project Plan Team deployment as per RFP and Detailed Final Layout in AutoCad-3D of Command and Control Centre and data center approved from tendering authority.	30% of Part A
2.	All Civil work and Supply and Installation of DG set or UPS System, Electrical wiring & Sockets, OFC and Local Area Network cabling in CCC for camera and servers Supply and installation of Tables, Cubical, Chairs, cupboards, Furniture and brackets for Video wall.	Phase completion report signed by inspection team	70% of Part A
3.	Hardware: Supply and installation of Video wall. Supply and Installation of workstations, racks, servers and storage in CCC	Phase completion report signed by inspection team	70% of Part B
4.	Electrical, OFC and Local Area Network cabling in Zone including OFC Subsurface land Markings Installing new 25 Cameras and 22 Wireless Lift Cameras	Phase completion report signed by inspection team	30% of Part B
5.	Software: Supply of requisite number of licenses and Implementation of VMS, CCC and video analytics software	Phase completion report signed by inspection team	20% of Part C
6.	Setting up & implementation of Control Center, Operation Center and connectivity to all higher officials designated places.	Phase completion report signed by inspection team	20% of Part C
7.	On Delivery, Inspection and successful installation of remaining equipment's/items as mentioned in bill of material of RFP document	Delivery Report Installation Report Inspection Report Warranty Certificates for items supplied Network Security Audit report	30% of Part C
8.	On successful training, Documentation, FAT and Go-Live	ISO Certification FAT Completion Report	30% of Part C
9.	Operations and Maintenance of Command and control center for 3 years from FAT	FMS Team deployment and Quarterly O & M reports - payable quarterly after the QPR approved by the Competent Authority.	8.33 % of Part D

- a) The supplier's/ selected bidder's request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- b) Due payments shall be made promptly by the purchaser, generally within sixty (60) days after submission of an invoice or request for payment by the supplier/ selected bidder, and the purchaser has accepted it.
- c) The currency or currencies in which payments shall be made to the supplier/ selected bidder

under this Contract shall be Indian Rupees (INR) only.

- d) All remittance charges will be borne by the supplier/ selected bidder.
- e) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- f) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- g) Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- h) Taxes, SEEPZ SEZ is exempted from GST as per the prevalent rules and regulations.

22) List of Items:

23) Generic Specifications for the equipment (Annexure 2):

BLADE CHASSIS

Item	Description of Requirement	Compliance
Form Factor	Max 10U Rack mounted Chassis to house at least 8 Dual Socket Compute Nodes.	
IO Modules	Min Four high-speed switch bays capable of supporting I/O architectures in Ethernet, Fiber Channel and FCoE. IO modules/ Switches should be scalable.	
Ethernet IO Module (10GBps)	The chassis should have 2 Nos. of 10 Gbps redundant network switches/ interconnect modules with sufficient number of 10 Gbps Downlinks ports per switch with respect to the number of blade servers populated in the chassis and at least 8 x 10 GB SR SFP+ uplink ports per switch for connecting to the data center switch. It should also include all the required cables and SFP connectors for all the ports.	
Fibre Channel IO Module	The chassis should have 2 Nos. of Fiber Channel SAN switches/ modules with at least 6 * 8 Gbps auto-negotiating FC uplinks and also at least 8 Gb auto-negotiating downlinks to all server bays. It should also include all the required cables and SFP connectors for all the ports.	
Midplane	Dual network connectivity for each blade server for redundancy should be provided. Backplane/Midplane should be completely passive device. If it is active, dual Backplane/Midplane should be provided for redundancy	
Power Modules	Redundant power modules that provide N+N or N+1 redundancy (Fully populated power supplies to be included from day one)	
Chassis Management Module	Integrated two redundant chassis Management Modules providing IP based management of the compute nodes and vital elements like FC and Ethernet Switches. Should also provide for controlling Power, Fan management, Chassis and compute node initialization, Switch management, Resource discovery and inventory management, Resource alerts and monitoring management, Chassis and compute node power management and diagnostics for elements including Chassis, I/O options and compute nodes.	
System Panel	LED/LCD on the front information panel that can be used to obtain the status of the chassis Identify, Check log and faults on the LED/LCDDisplay	
Managemen ntFeatures	Should provide a single console to monitor enclosure	
	Should support simultaneous remote access for different servers inthe enclosure	
	Should include OEM management/controlling software license for afully populated enclosure	
	Should provide remote management capabilities, performance management capabilities, and smart power management	

	capabilities.	
	The Blade servers will be used for Virtualization purpose therefore, these should be virtualization enabled through OS from day 1.	
Accessories	All required cables, connectors and related accessories to be supplied	
Warranty	5 Years Comprehensive onsite OEM Warranty	

BLADE Server for Recording Server

Item	Description of Requirement	Compliance
Processor	Min. 2 x Intel® Xeon® E5-2660 V3 (2.6GHz/ 1866MHz FSB, 25 MBCache)	
Chipset	Intel C600 Series or higher	
Memory (RAM)	64 GB DDR4 ECC 1866Mhz RDIMM with Memory Mirroring/ OnlineSparing	
HDD	Min. 2 x 300GB hot plug SFF 12 Gbps 10K RPM SAS drives or higher	
RAID	Integrated Hardware RAID Controller with RAID 0, 1	
Network	Min. 2 x 10Gbps (WoL and TCP/IP Offloading)	
Interfaces	Min. 1 x USB 2.0 Port	
SAN Connectivity	Min. 2 x 16 Gbps Fiber Channel HBA	
Graphics	Integrated	
Operating System	Genuine MS-Windows Server 2012 R2 standard Edition/RHEL 7 with 5 Years OEM Support, Subscription/ Software Assurance. (Bidder to provide updates, upgrades and patches with 5 years OEM Support)	
Manageme ntFeatures	Two Virtual machine per server shall be created using O.S. from day 1. Alternatively, bidder may use VMware software for virtualization at its own cost. In case of any virtualized host failure virtual machine should automatically restart on the redundant virtualized host	
Warranty	5 Years Comprehensive onsite OEM Warranty	
Certifications	Should be certified on the supplied OS	

Management Server

Item	Description of Requirement	Compliance
Processor	Min. 2 x Intel® Xeon® E5-2660 V3 (2.6GHz/ 1866MHz FSB, 25 MBCache)	
Chipset	Intel C600 Series or higher	

Memory (RAM)	64 GB DDR4 ECC 1866Mhz RDIMM with Memory Mirroring/ OnlineSparing	
HDD	Min. 2 x 300GB hot plug SFF 12 Gbps 10K RPM SAS drives or higher	
RAID	Integrated Hardware RAID Controller with RAID 0, 1	
Network	Min. 2 x 10Gbps (WoL and TCP/IP Offloading)	
Interfaces	Min. 1 x USB 2.0 Port	
Graphics	Integrated	
Operating System	Genuine MS-Windows Server 2012 R2 standard Edition/RHEL 7 with 5 Years OEM Support, Subscription/ Software Assurance. (Bidder to provide updates, upgrades and patches with 5 years OEM Support)	
Management Features	Two Virtual machine per server shall be created using O.S. from day 1. Alternatively, bidder may use VMware software for virtualization at its own cost. In case of any virtualized host failure virtual machine should automatically restart on the redundant virtualized host	
Warranty	5 Years Comprehensive onsite OEM Warranty	
Certifications	Should be certified on the supplied OS	

RACK with Cooling Solution & Fire Detection/Suppression

S. No.	Particulars	Compliance (Yes/No)
	CLOSE LOOP COOLING TECHNICAL SPECIFICATIONS :	
1	Closed Loop Cooling Solution with Inverter Technology (DX Type with R410a) –to support IT Load of 22kW (N+1). IT-optimised design, providing ideal support for “front-to-back” air routing for the 19" installations	
2	As a direct condenser, the integrated air/refrigerant heat exchanger should guarantee a cooling output of up to 12 kW with standard server enclosure dimensions, the lowest possible weight, and comprehensive possibilities for monitoring	
3	The Closed Loop Cooling Units, should be mounted on the sides of the racks. The warm server air is drawn in directly from the rear of the rack and the cooled air is blown back in front of the 19" equipment level from the side, over the whole height of the enclosure. The Cooling Units is closed up to the server rack at the front and rear and there forms a flush joint with the rack	
4	The Cooling Units should be equipped with four EC fans, for maximum efficiency and minimum power consumption. The flow characteristics of the heat exchanger are optimised for the lowest possible pressure losses on the air side. This should minimise the energy consumption of the fans	
5	The Cooling Units should be equipped with integrated inverter with corresponding controller & should serve to regulate the speed of the installed condenser	
6	The cooling capacity should regulate from 25%-100% based on the IT Load & Ambient temperature	

7	This should permit step less adaptation of the output, also in partial-load operation, and by reducing energy consumption also should achieve a reduction in operating costs	
8	Alongside the compressor, the cooling circuit of the Cooling Units should comprise a collecting tank, liquid separator, electronic expansion valve, optimised heat exchanger, high and low-pressure sensors, Schrader valves, filter dryer, non-return valve, high-pressure switch and shut-off devices	
9	The refrigerant connections and the electrical power connection to the unit should be realised from above or below	
10	The Cooling Units and the Server Rack should remain separate from each other. This simplifies assembly and service work and excludes the need for unwanted access to the server rack for maintenance purposes	
11	Maintenance and service for all relevant components should be realised quickly. The fans should be exchanged quickly and at any time, even while the system is operational (hot swapping). The fans should be installed in the cold air section, which increases their service life	
12	Condensate management should be integrated into the unit. Any condensate is collected in a collecting tray in the base and from there discharged to the outside via a hose	
14	Monitoring and alarm management for all physical parameters should be realised via SNMP over Ethernet	
15	A display with operating keys should be integrated on the front of the unit to display and set the physical parameters	
16	In case of InRow Solution bidder shall have to be provisioned with Cold Aisle containment which shall be able to provide the better efficiency	
17	Technical specifications of Indoor Cooling Units:	
18	Useful cooling output: Minimum 12 kW at 30 °C ambient temperature at place of installation of the condenser	
19	Minimum 10 kW at 47 °C ambient temperature at place of installation of the condenser	
20	Intake temperature, set: 22 °C	
21	Power supply: 400 V, 3~, N, PE, 50/ 60 Hz (voltage range 380-460 V)	
22	Refrigerant: R410a	
23	Connection length, max.: 30 m	
24	Installed fans: 4	
25	Air throughput: max. 5000 m³/h	
26	The External Condenser unit for Closed Loop Cooling Solution	
27	<p>The air-cooled condenser unit needed to operate the cooling packages should have axial fans with speed controlled according to the pressure in the cooling circuit. The housing should be manufactured from galvanised sheet steel and subsequently powder-coated.</p> <p>The condenser should have possibility to be mounted either horizontally or vertically using the enclosed accessories. A main switch with cover is enclosed with the unit.</p>	

28	Technical specifications of External Condenser	
29	<ul style="list-style-type: none"> • Air throughput: max. 5200 m³/h • Power supply: 230 V, 1~, 50/60 Hz • Max. connected load: 400 W • Refrigerant: R410a • Sound pressure level (10 m distance): 43 dB(A) 	
30	1.1 Copper piping	
31	<p>Refrigerant copper piping with closed cell elastomeric nitrile rubber tubular insulation between each set of indoor & outdoor units as per specifications, all piping inside the room shall be properly supported with MS hanger. Transmission wiring between indoor</p> <p>to outdoor unit in a suitable PVC conduit - 1.5 sq.mm 4 core. PVC Drain Piping - 25mm dia. Rigid PVC piping complete with fittings, supports as per specifications duly insulated</p> <p>with 6mm thick nitrile rubber tubular sleeves</p>	
32	1.2 Refrigerant Gas	
33	Supply of R – 410A, refrigerant gas, and charging it, after cleaning the line and pre-testing for leakage. Testing the line after charging the gas as per standards and directions	
34	Preferred make: Schneider/ Emerson/ Rittal	
35	1.3 Fire Detection and Suppression system For Server Room	
36	<p>Rack-mountable Fire Detection and Suppression system</p> <p>Fire detection and suppression master system must be compact enough to occupy only 1U space in each IT rack. 1U Rack Mountable device should have built-in high sensitivity smoke detection with active air-sampling. Also the NOVEC 1230 suppression system cylinders must be built-in within the 1U detection device with sufficient quantity. The 1U Fire detection and suppression system should be equipped with fire panel, with actuator, discharge nozzle, piping complete with accessories. The system should include a manual abort option. This device should be monitored using potential free contacts. It should have possibility to expand up to 4 nos. of IT Rack using master & slave configuration</p>	
37	<p>Rack-mountable Fire Suppression System</p> <p>Fire detection and suppression Slave unit must be compact enough to occupy only 1U space in each IT rack. 1U Rack Mountable Slave device should have the NOVEC 1230 suppression system cylinders, must be built-in within the 1U device with sufficient quantity. The 1U Fire suppression Slave unit should be communicating with master units for activation and suppression system</p>	

38	<p>Fire detection and suppression - Installation related services</p> <p>Bidder shall provide installation related services for fire detection system & Novec1230 gas based automated suppression system.</p> <p>The design, equipment, installation, testing and maintenance of the Clean Agent Suppression System shall be in accordance with the applicable requirements set forth in the latest edition of the NFPA Standards.</p>	
39	<p>1.4 Fault Signals Provisioning of monitoring fault signals alarm</p> <p>Remote Monitoring system with Graphical user interface with e-mail alerts. The following devices to be monitored: Temperature/Humidity, Water Leakage, Fire Detection & Extinguishing, Air-condition Units, Door access sensor. It should also monitor & control Automatic Door Opening of 6 Doors. It should provide a single TCP IP interface for remote monitoring of all components and generate email alerts and warnings. The central monitoring device should also be connected to Signal Pillar with Audio & Visual alarm extension. It should be able to operate with Protocols: TCP/IPv4, TCP/IPv6, SNMPv1, SNMPv2c, SNMPv3, Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS, SMTP, XML, Syslog, LDAP. The system should have feature to generate SMS alerts as well.</p>	
40	<p>1.5 IP Based CCTV Camera</p> <p>Small-sized Indoor Network Camera - AXIS M1013. Fixed lens and adjustable focus. Multiple, individually configurable H.264 and Motion JPEG streams; max SVGA 800 x 600 resolution at 30 fps. Video motion detection. Connects over wired Ethernet.</p>	
	<p>MicroSD/SDHC memory card slot for edge storage. Includes stand and clamp for easy mounting and power supply with Basic Software to monitor both the Camera. (Excludes MicroSD/SDHC Memory card)</p>	
41	<p>1.6 Complete Installation, testing & commissioning of complete Integrated DataCentre.</p> <p>Installation and Training:</p> <ul style="list-style-type: none"> (i) Installation of Data Centre and the relevant components has to be carried out by qualified technicians. (ii) 02 day on site training to the user at site 	
42	<p>RACK SPECIFICATION</p> <p>These Racks will be used to mount and house all servers/network/storage devices in the data centre. The rack has to be designed to meet the safety requirements of the modern data centre. Both the front and rear door should be designed to give active high performance closed loop cooling system with handle & key lock system, Cable entry should be entered via the roof plate and via the gland plate without affecting the climatic conditions inside the rack.</p>	
43	Rack Height – 42 U	
44	Server/Storage Rack	
45	<p>Maximum Width – 600 mm</p> <p>Maximum Depth – Bidder to propose</p>	

46	Network Rack	
47	Maximum Width – 800 mm Maximum Depth – Bidder to propose	
48	Each Rack should include	
49	19" Rack frame with sturdy frame construction made of sixteen fold or more rolled hollow frame section punched in 25mm DIN pitch pattern and load bearing capacity of 1000Kg or more	
50	2 pairs of 42U 19" L Type angles at Front & Rear on 6nos of punched sections with "U" Marking	
51	Front Glass Door with door stiffeners, Rear Sheet Steel Door with door stiffeners, with Comfort Handle with Unique key lock	
52	Set of Side Panels	
53	Top cover plain, Bottom cover with cut out of 400Wx150D with wire brush insert at backside for cable entry	
54	Vertical PDU, 32A, Single Phase, with Digital Ammeter, 12 o's of C13 and 4 No's of C19, 32A MCB & IEC309 Socket as Input. (2nos Per Rack)	
55	Base Plinth 100mm height	
56	Earthing kit, Cu Earth rail 15x3x500 with 10 Points with screws and insulators & Earth Straps, 4Sqm, 170mm In length	
57	Hardware pack of 20 (2 packs / Rack)	
58	Metal Shunting rings/ Vertical Cable Manager for network rack	
59	Blanking Panel 1 U, ABS Material (20 no's / Rack)	
60	The Rack & the cooling Solution shall be of the same make	

Wall Mount Network Rack

DESCRIPTION	NETWORK RACK WALL MOUNT	Offering Same (Y/N)
MAKE		
HEIGHT	6U	
TYPE	WALL MOUNT	
WIRE MANAGERS	ONE HORIZONTAL	
POWER DISTRIBUTION	POWER DISTRIBUTION	
DOOR	GLASS DOOR IN FRONT WITH LOCK	
FAN TRAYS	WITH FANS	
DEPTH	600 MM	
METAL	ALUMINIUM EXTRUDED PROFILE	

20-50 TB Usable Storage (using NL-SAS disks) for Video and 5 TB usable using SAS disks

Item	Description of Requirement	Compliance
Solution Type	Bidder is expected to provide Unified Storage solution meeting benchmark performance parameters specified in SLA. Solution proposed should yield low cost per TB, while meeting the performance parameters	
Storage Size	20-50 TB usable Storage shall be offered (Disks should be preferably of 4 TB or higher capacity dual ported min. 7.2 K RPM 6 Gbps NL-SAS Drives.) under RAID 6 which should be scalable to support 400 TB usable capacity in future. 5 TB usable Storage shall be offered (Disks should be of 600 GB 10K SAS 6 Gbps Drives.) under RAID 5. Should support latest technology SSD, SAS, NL-SAS/SATA Drives and automated policy based tiering between all the types of drives	
Hardware Platform	<ul style="list-style-type: none"> • Rackmounted form-factor • Modular design to support disk drives expansion • Min. 16 Backend SAS lanes for disk connectivity 	
Controllers	<ul style="list-style-type: none"> • 2 numbers of Controllers in active/active mode – Unified Storage with 64 GB onboard protected DRAM Cache across SAN controllers • The SI shall be responsible for smooth flow of video at CCC for live video, playback and video analytics. In case the complete solution requires higher cache the SI has to provide cache accordingly. • The controllers / Storage nodes should be upgradable seamlessly, without any disruptions / downtime to production workflow for performance, capacity enhancement and software / firmware upgrades. 	
Ports	Min. 4 * 16 Gbps FC ports, min. 4 * 10G Ethernet and 2 replication ports	
Operating System and Virtualization Support	Windows, Linux and Virtualization Platform like VMware, RHEL, Xenserver and HyperV	
Protocol Support	FC, iSCSI, NFS, CIFS, SMB	
Management Protocol Support	SNMP, LDAP/AD, Network Time Protocol	
RAID support	Should support various hardware industry standard RAID levels (0,1,5,6,10) or equivalent	
Redundancy and High Availability	The Storage System should be able to protect the data against single point of failure with respect to hard disks, connectivity interfaces, fans and power supplies.	

Management software	<ul style="list-style-type: none"> • All the necessary software to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots etc. • GUI/Single Command Console for entire storage system • Should also include storage performance monitoring and management software. • Should provide the functionality of proactive monitoring of Disk drive and Storage system for all possible disk failures • Should be able to take “snapshots”. 	
Licenses and Software	Auto-tiering, Thin Provisioning, Sub-LUN level tiering, Remote Replication, Quality of Service Software for IOPS, Response Time and bandwidth.	
Data Protection	The storage array must have complete cache protection mechanism either by de-staging data to disk or providing complete cache data protection with battery backup for up to 48 hours.	
Retrieval Time	Retrieval time for any data stored should be maximum 4 hours for critical data and 8 hours for other data. This would be taken care in to account for SLA calculation. Critical data means – any data needing urgent attention by the judicial system or by the Police Department for investigation / Terrorist Threat perception.	
Other	All required cable and connectors to be supplied	
Quality	The Storage OEM preferably should be in the Gartner Leader Quadrant or should be in top 5 OEM as per IDC	
Warranty and Support	3 years onsite hardware support warranty including Next Business Day part replacement / repairs and remote software support for updates, upgrades, patches and bug fixes for supplied Software for 24*7*365 days.	

SAN Switch

SAN Switch	2 x 24 port SAN switch with associated cables and rack mountable kit. Each port should support 16 Gbps.	
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LED (Professional Display to be used for 3x2 Video Wall)

#	Features	Description of Requirement	Compliance
1.	Screen Size	55 inch	
2.	Panel Type	Direct LED P 1.5/P2 whichever is suggested during the design approval.	
3.	Aspect Ratio	16:9	

4.	Resolution	1920x1080 (FHD)	
5.	Brightness	500 Cd/m2	
6.	Display Color	Minimum 8 bit -16 million	
7.	Response Time	12 ms (G to G)	
8.	Viewing Angle	178/178	
9.	Bezel Width	Maximum 2.3 mm(U/L) and 1.3 mm(R/B)	
10.	Bezel Color	Black	
11.	Inputs Ports	RGB, DVI-D, Display Port 1.2, HDMI, USB 2.0	
12.	External Control	RS232C (In/Out) , RJ 45	
13.	Remote Control	Wireless remote control with each display unit along with batteries	
14.	Certification's	Safety- UL(USA) EMC- FCC(USA) Environment- Energy Star 6.0 (USA)	
15.	Usage Hours	24 hours/ 7 days	
16.	Fittings and Cables	The screen should be supplied with wall mount kit or any other Suitable fittings. All necessary cables for connectivity with Video	

#	Features	Description of Requirement	Compliance
		Controller/ work stations/any other equipment as per requirement of proposed solution.	
17.	Warranty	5 years comprehensive onsite warranty	
18.	Combination of LED's	3x2 combination of above mentioned LED tiled together contiguously to form one large Video wall. All necessary hardware to stack LED screen together to be supplied	
19.	Brightness calibration	Brightness of all LED's in a video wall has to be calibrated.	
20.	Orientation:	The screen should have provision of convenient content creation & management with image rotation to make videowall either in portrait or landscape mode.	
21.	Matrix Combination	The video wall of any matrix combination (CR) should be capable of displaying multiple type of outputs as desired in CCC facility	

Display Controller for video wall (3x2)

1	General Display Controller to control up to three Video Walls in a matrix of m x n (any combination of Row & Column) up to total of 6 screens, video inputs and universal inputs along with necessary wall management software's)	
2	Networking Dual-port Gigabit Ethernet Controller inbuilt Support for Add on Network adapters	
3	Wall configuration: 6 DVI-D/ HDMI Outputs	
4	Resolution Output support: Minimum 1920x1080 or higher	
5	Universal Inputs 6 Universal Inputs (Should be able to accept at least 3 kinds of signals i.e. DVI/RGB/HDMI)	
6	Redundancy Support: System should have the redundancy support for following: -Controller Hard Disk Data -Power Supply -LAN	
7	Software Compatible Video Wall Management software to meet the required functionality	

Work Stations:

#	Item	Description of Requirement	Compliance
▪	Processor	Intel Xeon /i 7 Processor 64 bit (Quad core)	
▪	Memory	Minimum 16 GB Memory expandable upto min. 32 GB	
▪	Graphics card	WHQL certified NVIDIA Graphics card with 8 GB onboard video memory (non shared), graphics card shall be chosen such that each workstation supports 4 monitors simultaneously with no degradation in video quality considering HD video quality and 25 fps	
▪	HDD	2 TB SATA Hard drive @7200 rpm and 256 GB SDD	
▪	Media Drive	16X DVD \pm RW	
▪	Network interface	1000BaseT, Gigabit Ethernet (10/100/1G auto sensing)	
▪	Audio	Line/Mic IN, Line-out/Spr Out (3.5 mm)	
▪	USB ports	Minimum 6 USB ports (out of that 2 in front). Out of 2 USB port in front ,Minimum 1 USB Port in front shall be USB 3.0 These would be disabled for data transfer.	
▪	Keyboard	104 keys minimum OEM keyboard	
▪	Mouse	2 button optical scroll mouse (USB)	
▪	Monitor	3 number of 21 inch monitor, Minimum 1920 x1080resolution, TCO 03 (or higher) certified	
▪	Operating System	Latest 64 bit licensed operating system with media as per proposed solution	
▪	Anti-virus feature	Advanced antivirus, antispware, desktop firewall, intrusion prevention (comprising of a single, deployable agent) which can be managed by a central server. (Support, updates, patches and errata for the entire contract/ project period)	

Note: There would be DRM Software/application installed on the workstations at the Command & Control Centres and mobile tablets/smartphones that would prevent unauthorized copying of video feeds and other sensitive data. The storage structure of the video feeds shall be such that it prevents copying/tampering/export of video feeds without proper user authentication and audit trail. The screens of all the operator workstations shall be recorded to ensure that all operator transactions are recorded and stored for a period of 90 days at full frame rate and native resolution.

Joystick

S.No.	Item	Description of Requirement	Compliance
1.	Joystick	<ul style="list-style-type: none"> PTZ speed dome control for IP cameras Multi-camera operations Compatible with all the camera models offered in the solution Compatible with VMS /Monitoring software offered 	

Camera for Internal Surveillance

S.No.	Item	Description of Requirement	Compliance
1.	Video Compression	H.264 or better	
2.	Type	Dome Type	
3.	Video Resolution	1920 X 1080	
4.	WDR	Required (> 70db)	
5.	Automatic Gain Control	Required	
6.	Frame rate	25 fps in all resolutions	
7.	Image Sensor	1/4" / 1/3" Progressive Scan CMOS	
8.	Lens Type	Varifocal, C/CS Mount, IR Correction	
9.	Lens	Fixed IRIS 2.8-10mm, F1.7, 3x optical zoom, 10x digital zoom	
10.	Minimum Illumination	0.9 lux	
11.	Image settings	Compression, colour, brightness, sharpness, contrast, white balance, exposure control, backlight compensation, rotation	
12.	Protocol	HTTP, HTTPS, FTP, SMTP, RTSP, RTP, TCP, UDP, RTCP, DHCP	
13.	Security	Password Protection, IP Address filtering, User Access Log	
14.	Operating conditions	0 to 50°C	
15.	Casing	Tamper Resistant casing for Indoor Environment	

Vendor shall supply the following to obtain project level approval:

- Copy of ISO 9001:2008 Certification.
- Copy of Green guard certifications for full console. Certification for compliance with minimum indoor air quality standards.
- Detailed CAD (PDF format) drawings of console and equipment layouts for coordination of site measurements, architectural, mechanical, and electrical project elements for each console type.
- Copy of test certification for ASTM E84-06a for surface burning characteristics of products and materials. Test
- Must reference the actual assembled components for wood-core panels including core, laminates and edging.
- Raw material supplier data alone is not acceptable.
- Copy of test certification for the following ANSI/BIFMA test procedures performed by an independent testing laboratory or approved by a professional engineer:
 - a. Concentrated Functional Load Test
 - b. Distributed Functional Load Test
 - c. Concentrated Proof Load Test
 - d. Distributed Proof Load Test
 - e. Leg Strength Test
 - f. Stability under Vertical Load Test

The tests must be based on the ANSI/BIFMA X5.5-2008 Standard applied to the proposed product solution.

- Detailed CAD (PDF format) drawings of each console type with its specific equipment per application.
- Renderings of consoles and room upon request.
- Pre-production review, to include a drawing submittal and component listing complete with samples of selected finish materials upon request.
- Samples of the following material components, which demonstrate workmanship, shall be provided upon request:
 - Work surface sample with ergonomic nosing.
 - Sample panel construction and finish materials.

Modular Rear Wall (optional)

- Modular rear walls shall be vertically stackable; allowing for various viewing levels and privacy.
- Walls shall be available in 152mm
- Walls shall be capable of supporting technology integration above the work surface level.
- Modular walls shall be made of 14-gauge and 16-gauge steel.
- 82mm maximum nominal depth (to maximize usable work surface depth).
- Wall shall accept modular components like slatwall mounting system, HPL inserts, fabric inserts
- Shall allow for continuous linear run of frames.
- Walls shall be configurable to match the angle configurations of the lower frames without disrupting continuous lateral cable management among frames.
- Walls shall be finished in durable, black, electrostatic powder coating with a uniform application over all steel surfaces.
- Single and double-sided solutions shall be available.

Work surfaces

- The work surface shall be designed to provide a smooth, level work area, while complying with accepted human factors criteria. All applicable ergonomic standards will be taken into consideration¹, including view and reach distances, keyboard height, and knee-well space.

Technology Accommodation

Below Work surface Level (CPU storage) The console shall accommodate computer equipment* with a variety of optional processor shelves. Fixed shall be available with the hinged panels.

CPU Shelf Options Internal Components and Attachment:

1. Components shall have the following properties:
 - a. Fixed processor shelf 16 Gauge Cold rolled steel, powder coated
 2. Processor Shelf
 - a. Fixed Shelf – 200 lbs. (90 Kg) load, 14 gauge CRS, Powder coated black
 3. Maximum Equipment (Reduced Depth)
 - a. Fixed Shelf – 21” (533 mm) x 8 ¾” (222 mm) x 19” (483 mm)
- Termination board Options
 - Desktop Level (Under-counter and Rack-mount technology)

Above Work surface Level

- The console shall have the ability to have flat screen monitors and various desk accessories mounted on the rear slatwall. Standard slatwall heights include 152 mm, and can be combination slatwall and partition structure. The slatwall design can be configured to accommodate equipment mounting on both sides and in a back-to-back configuration both modules share one set of slatwall.
- The following options shall be available:
 - a. Articulating monitor arm, depending on console configuration.
- Cable Management
- Console System shall be designed to allow for unrestricted cable management and access.

Materials

- Console Frame Structure
 - All sheet metal used for structural components shall be 14 Gauge cold rolled steel. These components ensure square, rigid connection of the front portal to the rear frame assembly, module-to-module connections at corner positions, and attachment of front, rear and end panels. Sheet metal parts to be produced on CNC machines to ensure precision.
 - a. Foot 2” x 1” Steel Tube, powder coated
 - b. Door Columns 14 Gauge Cold rolled steel, powder coated
 - c. Corner modules 14 Gauge Cold rolled steel, powder coated

- d. Front and Rear stringers 14 Gauge Cold rolled steel, powder coated
 - All sheet metal parts must be finished with a durable, black, electrostatic powder coating.
- Internal Components and Attachment
 - Components shall have the following properties:
 - a. Worksurface support arm 12 Gauge Cold rolled steel, powder coated
 - b. Worksurface support stiffener 14 Gauge Cold rolled steel, powder coated
 - c. Fixed processor shelf 16 Gauge Cold rolled steel, powder coated
- Worksurfaces and Panels
 - Panels and worksurfaces shall have the following properties:
 - a. Materials: 1" (25mm) particleboard, high-pressure laminate surface
 - b. Finish Horizontal grade laminate.
 - c. Static Load 50-lb./ linear ft.
 - d. Surface to Floor Distance Fixed 29" (737 mm) 27 1/2" (692 mm) clearance
 - Panels shall have the following properties:
 - a. The console must offer hinged clipped panels as an option for front and back. Hinged panels will hinge from the column. Standard is a low pressures laminate surface. Custom options include High-pressure laminate or Veneer.
 - b. End Panels: 1 in Thermofused Melamine Laminate (LPL).
 - c. Lower/Intermediate Panels 3/4 in Thermofused Melamine Laminate (LPL).
 - The work surface shall be supplied with a nosing (waterfall edge). The nosing shall comply with the characteristics as follows: Should be manufactured from high impact polyurethane edging over a extruded aluminum core Formed nosing affixed the worksurface directly. Should be easily replaceable if damaged in use. Comfortable and ergonomically sound.
 - Allows for curved sections with a min. 356mm radius.
 - No T-Mold or flat edge banding will be accepted at the front edge for nosing.
 - Slatwall Component
 - Slatwall shall be 6063-T6 Extruded Aluminum, fully anodized, black in color.
 - Rubber insulation or insulating materials should be used for flooring of the CCC.

Space Planning and Configuration Design

- Each bidder must submit a floor plan to scale, showing each item being proposed.
- Elevation and section drawings will be required in the submittal with dimensions of height, width, and depth in order to determine compliance with the specifications.
- Photo-realistic isometric color renderings of consoles and room upon request.
- All accessories being proposed need to be shown in drawings.

- Colors are to be selected from manufacturer's standards. A Color Guide shall be submitted with the proposal.

Schedule

Upon award of the contract supplier shall provide a schedule with exact dates for the following milestones:

1. Detailed requirements analysis.
2. Final design submittal.
3. Pre-production approval submittal.
4. Fabrication period.
5. Factory acceptance/packing & shipping.
6. Delivery date.
7. Installation.

Warranty Details

The Console System shall be free from defects in materials and workmanship from the date of transfer of title as follows:

- a. LIFETIME WARRANTY on all fixed structural frame components;
- b. LIFETIME WARRANTY (parts) on all static exterior panels and work surface component parts; (3 years on labor);
- c. LIFETIME WARRANTY (parts) on all adjustable, sliding or hinged mechanisms or parts (3 years on labor);
- d. Three year warranty on electrically actuated linear lift columns;
- e. OEM warranty on all buyouts.

Chair

#	Description of Requirement	Compliance(Yes/No)
1.	Productivity work chair having width 70cms, Depth 70 cms, Height Adjustability 93 to 110 cms and adjustment of seat height 45 to 55 cms. with approved color as per customer recommendation with seat height adjustment and tilting mechanism	

Rodent Repellent System

Item	Description of Requirement	Compliance
Objective	The purpose is to keep the rodents away from the floor by generating very high frequency sound waves (above 20 KHz) which are not audible to human ear but irritates rodents. The objective is to protect all the cables below floor, above ceiling & room void from damage caused by rodents	
Place of Installation	Data Center	
Main Console	Maser / C Systems	
Standards	The OEM shall have an IDEMI and CFTRI certification for its products	

	<p>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 20 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</p>	
Satellites (Maser/C Systems)	<p>The satellites or Transducers shall be circular ceiling mounted low profile units that produce high decibel sound waves at very high frequency not less than 20 KHz. These satellites shall cover an area not less than 400 Sq.ft for Room void application, for ceiling Voids & floor void applications. No looping is permitted while connecting the satellites to the main controller. Every satellite connected to the controller shall have a dedicated connection with the controller</p>	
Controllers	<p>The controller shall support 12 Transducers and shall come with a pair of stands and brackets. The controller is installed in the control / BMS room and the transducers in the problematic areas i.e. above and below false ceiling and below false flooring.</p> <p>Controller Features :</p> <ul style="list-style-type: none"> • 2000 Sq. Feet of Area Coverage per system/ Controller. • Shall drive up to 12 Transducers. With minimum @ 250sq.ft coverage each. • LCD display with on-board controls for changing parameters 	

Biometric Finger Scan Reader

Features	Description of Requirement	Compliance (Yes/No)
Make & Model		
Finger Print Template	Open Standard Template (ISO based)	
Credential Support	Fingerprint, Card and Pin	
Finger Print Template	10 per user	
Sensor Type	Suprema/Morpho/Cogent	
Card Type Support	Proximity Card (Myfare)	
User Capacity	50,000	
Display Unit	3.5 inch TFT Display with touchscreen	
Buzzer	Yes	
Event Buffer	25,000	
Connectivity	Ethernet and USB	

Power Input	12 V DC	
Operating Temperature	0° to 50°C or 32° to 122°F	
Sensor Resolution	500 dpi	
Timing	Fingerprint Capture: Less than 5 Sec	
	Verification of captured finger: Less than 2 Sec	
Fingerprint Enrolment Software	Yes	
Certifications	STQC certified and UL	

Access Control Software: The Access Control Software should have the following Specifications:

Features	Compliance (Yes/No)
1. Compatibility with any Windows Operating System	
2. Compatibility with MYSQL / SQL / ORACLE	
3. Support for TCP/IP Communication	
4. Provision for Alarm Monitoring for Battery, Mains Supply, Door Opened too Long, Door Forced Opened, Unauthorized Swipe & Controller Tampering	
5. Support for unlimited number of Card Database & Transactions	
6. Specify Card Activation & Expiry Date	
7. Support for Biometric, Pin & Smart Card Applications	
8. Management of Dual Access Levels to a single Card	
9. Remote Locking & Unlocking of Doors	
10. Remote management of Controllers	
11. Customization of Door User time for every card holder	
12. One Client License	
13. Two Stages of Alarm Management (Acknowledgement on Receipt & Closure on Investigation)	
15. Access Privileges on the basis of Time & Date	
16. Creation of holiday schedules to cover maintenance & Vacations / Holidays	
17. Setting of Time / Date from Client workstation	
18. Permission to activate any control output for a specific event such as alarm	
19. Programmable Shunt time to control the door opening time	
20. Area Control by using Hard Anti Pass back, Soft Anti Pass back, Timed Anti Passback, Occupancy Limit, Multi man principle, Area Lock down, Threat level conditioning.	
21. Alarm Management	
22. Automatic User Log off	
23. Cardholder Management & Enrollment	
24. Creation & Maintenance of User Database	
25. Assignment of Access Privileges	

26. Shall be capable to enrol biometric fingerprint templates	
27. STQC certified enrolment biometric device to be provided	

UPS for Command and Control Center

S. No	Functions	Specifications	Compliance (Yes/No)
1.	Make & Model		
2.	Standards	A. Safety EN/IEC62040-1-1 B. Emissions EN50091-2 / IEC62040-2/ CISPR 22 Class A	
3.	Capacity/Rating	<ul style="list-style-type: none"> - The UPS shall be sized for 20 KVA and 16 kW load at powerfactor 0.8. - The UPS battery shall be sized for 20KVA at a power factorof 0.8 for 30 minutes. - The UPS shall have a short circuit withstand capability of 20kA 	
4.	Type	Three-phase On-line, continuous operation, solid-state uninterruptible power supply (UPS) with the option to run in parallel with identical units	
5.	Mode of operation	<ul style="list-style-type: none"> vi. Normal: The inverter and the rectifier shall operate in an on-line manner to continuously regulate the power to the critical load. The rectifier shall derive power from the AC input source and supply DC power to float charge the battery. vii. Battery: Upon failure of the AC input source, the critical load shall continue being supplied by the main inverter without any switching. The inverter shall obtain its power from the battery. There shall be no interruption in power to the critical load upon failure or restoration of the AC input source. iii. Recharge: Upon restoration of the AC input source, theUPS shall simultaneously recharge the battery and regulate the power to the critical load. ix. Static Bypass: The static bypass switch shall be used for transferring the critical load to input supply without interruption. Automatic re-transfer to normal operation shall also be accomplished with no interruption in power to the critical load. The static bypass switch shall be fully 	

		<p>rated and shall be capable of manual operation. The UPS shall be able to recharge the batteries while supplying full power to the load via the static bypass switch.</p> <p>x. Internal maintenance bypass switch: The UPS shall be provided with an internal manual bypass switch for supplying the load directly from the mains supply, while the UPS is taken out for maintenance. The switch should be removable when the individual UPS unit has to run in parallel with other units.</p>	
6.		<p>The UPS shall be provided with RS-232 signaling and WEB/SNMP integration. This system must provide a means for logging and alarming of all monitored points plus email notification.</p> <p>The UPS shall have nominal voltage of 3×400/230V, 50Hz, L1,L2,L3,N,PE.</p> <p>The UPS will be capable of paralleling up to max 4 like kVA and type UPS systems for capacity.</p>	
7.	Invertor Technology	IGBT with high Pulse Width Modulation (PWM) Technology	
8.	Output WaveForm	Sinusoidal	
9.	Generator	Should be provided so that the generator capacity should	

	Compatibility	not be greater than 1.3 times of UPS	
10.	Total Harmonic Distortion	< 3% for 100% linear load < 5% for 100% non-linear load	
11.	Short circuit withstand	The UPS must withstand a bolted-fault short circuit on the output without damage to the UPS module.	
12.	System AC-to-AC efficiency	>95% for loads greater than 100% of system load >94% for loads greater than 50% of system load	
13.	Acoustical noise	dB (A) of noise <58 dBA, typically, measured at 1 meter from the operator surface	
14.	INPUT		
15.	Nominal Input Voltage	3×400/230V (adjustable for 3×380/220V or 3×415/240V)	
16.	Input Voltage Range	304-477V	
17.	Input Frequency	40-70 Hz (auto sensing)	
18.	Input Power factor	>0.98	
19.	Input current distortion	< 5% THD at 100% load	
20.	OUTPUT		
7.	Inverter Technology	IGBT with high Pulse Width Modulation (PWM) Technology	
8.	Output Wave Form	Sinusoidal	
9.	Generator Compatibility	Should be provided so that the generator capacity should not be greater than 1.3 times of UPS	
10.	Total Harmonic Distortion	< 3% for 100% linear load < 5% for 100% non-linear load	
11.	Short circuit withstand	The UPS must withstand a bolted-fault short circuit on the output without damage to the UPS module.	
12.	System AC-to-AC efficiency	>95% for loads greater than 100% of system load >94% for loads greater than 50% of system load	
13.	Acoustical noise	dB (A) of noise <58 dBA, typically, measured at 1 meter from the operator surface	
14.	INPUT		

15.	Nominal Input Voltage I	3×400/230V (adjustable for 3×380/220V or 3×415/240V)	
16.	Input Voltage Range	304-477V	
17.	Input Frequency	40-70 Hz (auto sensing)	
18.	Input Power factor P	>0.98	
19.	Input Current distortion c	< 5% THD at 100% load	
20.	OUTPUT		
21.	Output Voltage	3×400/230V.	
22.	Regulation	Earthing principle: [TN-S] [TT] or [IT] Output voltage regulation for steady state and transient variations (at default parameter settings) - $\pm 1\%$ steady state for a static 100% balanced load. $\pm 1\%$ steady state for a static 100% unbalanced load.	
23.	Output Frequency	c. Synchronized to mains over the range of 47-53Hz or 57-63Hz in normal operation 50 Hz ± 0.1 Hz in battery operation.	
24.	Output Voltage harmonic distortion v	c. <2 % THD maximum for a 100% linear load <5% THD maximum for a 100% non-linear load	
25.	Overload capability	c. 150% for 1 minute in normal operation 125% for 10 minutes in normal operation	
26.	Output Power Factor P	For loads exhibiting a power factor of 0.5 leading to 0.5 lagging, no de-rating of the UPS shall be required.	
27.	Output Voltage Regulation	a. Static: Less than 1% at full linear load. Dynamic: 5% at 100% step load.	
28.	Output Frequency	50Hz free running	
29.	Crest Factor	Unlimited but regulates it down to 2.7.	
30.	INVERTOR	- The inverter shall consist of fast switching IGBT powermodule. - Inverter shall be PWM controlled using DSP logic. Analogue control shall not be acceptable. The inverter modules shall be rated for an output powerfactor at 0.8.	

31.	Environmental Requirement	<p>f. Storage ambient temperature: –25°C to 40°C</p> <p>g. Operating ambient temperature: 0°C to 40°C. 15°C to 25°C is ideal for batteries (above the battery lifetime is reduced).</p> <p>h. Relative humidity: 0 to 95%, non-condensing.</p> <p>i. Storage elevation: 0 to 1000m.</p> <p>Operating altitude with no de-rating : 0 to 1000m feet above sea level</p>	
32.	Parallel Operation	<p>For purposes of paralleling UPS units in the event of increased capacity or redundancy, the UPS shall contain as a standard feature, the ability to parallel up to 4 modules. In this mode of operation the output voltage, output frequency, output phase angle, and output impedance of each module shall operate in uniformity to ensure correct load sharing. This control function shall not require any additional footprint and</p> <p>shall be an integral function of each UPS.</p> <p>Load Sharing: A load sharing circuit shall be incorporated into the parallel control circuits to ensure that under no load conditions, no circulating current exists between modules. This feature also allows each UPS to share equal amounts of the total critical load bus. Load sharing communications shall be galvanically isolated for purposes of fault tolerance between UPS modules. A UPS module's influence over load sharing shall be inhibited in any mode where the UPS inverter is not supporting its output bus.</p>	
33.	Preferred make	APC, Emerson, Delta	

Comfort Air Conditioning

S. No	Functions	Specifications	Compliance (Yes/No)
1.	Make & Model		
2.	Type	Split Type AC of suitable nominal cooling capacity fitted with Inverter operating on with greener / environmental friendly refrigerant such as R407C/R410A best suitable to take care of environmental norms	
3.	Rating	Operation on 230 V, 50 Hz, single phase, or 415 V, 50 Hz, threephase	
4.	Remote	Yes	
5.	Capability	<p>Capable of performing</p> <ul style="list-style-type: none"> - Cooling - Air Circulating - Filtering 	
6.		The split unit's shall be connected using Sequential controller	

		working in periodic operations	
7.	Preferred Make	Daikin/ Toshiba/ O General/ Mitsubishi	

24) Service Level Standards/ Requirements/ Agreement

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the selected bidder to the tendering authority for the duration of this contract.

The tendering authority will regularly review the performance of the services being provided by the selected bidder and impose penalties if any deficiency is found in the services.

Three consecutive quarterly penalties (on actual) of more than 20% of the applicable fee in each quarter on account of any reasons may be deemed to be an event of default and termination.

It is acknowledged that service levels may change as service needs evolves over the course of the contract. The present SLAs have been worked out on the basis of current expectations. Service levels between the purchaser and bidder can be revised after the start of O & M phase in view of experience gained. The experience gained during this period will be used to fine tune the SLAs, including parameters, targets and penalties, if required. Any changes to the levels of services provided during the project period will be requested, documented and negotiated in good faith by both parties. Either party can request a change. Changes will be documented as an addendum to the contract.

The SLA has been logically segregated in the following categories:

1. IT and Non IT Infrastructure service levels
2. Security Management service levels
3. Manpower availability service levels

IT and Non IT Infrastructure Contract Management:

This service level will be applicable on following IT equipment's and Non IT equipment's which are part of list mentioned at Annexure 1 and additional hardware which may be deployed during the project period in command & control center and data center :

S. No	Service description	Measurement parameter	Target	Penalty
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1.	CCC & Data Center Uptime calculated for each IT and Non IT equipment	Uptime of an equipment = $\{1 - [(\text{Equipment downtime}) * (\text{Severity factor}) / (\text{Total Time})]\} * 100$	$\geq 99\%$	NA
			< 99 and $\geq 97\%$	For every 0.5% degradation in the uptime there will be a penalty of 1% of Agreed Quarterly Payment
			$< 97\%$	For every 0.5% degradation in the uptime there will be a penalty of 2% of the Agreed Quarterly Payment
2.	Preventive Maintenance	No. of days	In last 15 days of the quarter	Rs. 1,000/- per day per equipment subject to maximum of Rs.3,000/- per equipment

- Equipment/Services Downtime is the time in hours that the equipment/ Services is not available and excludes planned downtime, which are approved by the tendering authority and the link failures that are taken from third party. The downtime shall be calculated by Video Management software as applicable. In case, downtime of any equipment/ Services is not available on software, it shall be calculated from the helpdesk.
- Severity factors of each equipment's are defined in Annexure 1. The severity factor for the items to be procured would be communicated accordingly.
- Total time is equal to total number of hours in the given quarter.
- Planned Downtime means any time when the equipment's is unavailable because of maintenance, configuration/reconfiguration or other services with the prior approval of tendering authority/Police Department. Such services may include but are not limited to restarting applications, rebooting servers, applying patches or fixes, reconfiguring storage allocation, reloading data and making DNS & firewall changes to close security holes.
- Example: 90 days will be considered in each quarter.
- Thus total time in quarter is 129600 minutes and total uptime is 99% i.e. 128304 minutes. Total downtime allowed is 1296 minutes in a quarter. For SLA calculation equipment wise downtime will be calculated and thereafter sum of all equipment downtime should be less than 1296 minutes in a quarter for non-applicability of penalty.
- This service level will be applicable for security related incidents as follows:

S. No	Service description	Measurement parameter	Target	Penalty
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1.	Data Centre of CCC shall be kept free from virus attack	Resolution time for each virus attack	12 – 36 hours, as may be decided by tendering authority, depending upon the severity of the attack	Rs. 5000 for delay of every 24 hours or it's part
2.	Datacenter of CCC shall be kept free from denial of service (DoS) attack	Number of DoS attacks	Zero	Rs. 100000 per DoS attack
3	There shall be no Data theft or loss or compromise of any data hosted at SDC of CCC	Number of such incidents	Zero	Rs. 100000 per such incident
4	There shall be no intrusion	Number of such incidents	Zero	Rs. 50000 such incident

- Virus Attack refers to any virus infection and passing of malicious code and shall be monitored at the gateway level or logged at the help desk system on complaint of virus infection by user.
- Denial of Service Attack refers to non-availability of any services. An incident shall be analyzed and forensic evidence examined to check if the incident is due to external DoS attack.
- Intrusion refers to unauthorized access to networks, systems, services, applications or data, protecting email gateways, firewalls, servers, desktops.
- Manpower availability for CCC -

The manpower deployed by Service Provider for carrying out and providing FMS services shall necessarily be on direct payroll of the bidder organization and should not be outsourced / subcontracted in any circumstances except for the following manpower category: **Column 1**

S.No.	Role	9:00 AM to 7:00 PM	7:01 PM to 05:00	5:01 AM to 8:59 AM	Min. Qualification, Relevant	Penalty on non-availability
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			AM		Experience & Certifications	yof resource (Per resource per shift)
1	2	4	5	6	7	8
2	CCC Supervisor Staff	1	-	-	As per Tender Document	1500
3	CCTV Operator	3	1	1	As per Tender Document	1500
4	Technicians	Minimum 3	Minimum 3	Minimum 3	Relevant Experience	500
	TOTAL	7	4	4		

- **Note: Every resource has to hand over his shift to other resource if there is availability of resource in next shift.**

The resources shall be deployed by the Service provider to manage the CCC and datacenter 24 *7 and maintain the service level requirements. Provisions of leave reserve, providing leaves and other facilities / perks shall be as per Service provider prevailing policies / practices which shall be taken care by Service provider without any liability and/or financial implications on the part of Purchaser.

The team deployment plan shall be prepared by Service provider periodically and shall obtain approval from OIC- SDC /tendering authority prior to its implementation.

No resource shall be absent without prior permission of the designated authority. Penalty on non- availability of any resource shall be as under:

Sr.	No. of absence shifts per role in a quarter	Applicable Penalty / Actions
1.	> 0 but <= 10	No. of absence shifts x Amount defined in the column "1" of above mentioned tables "Minimum Manpower Resource Table for CCC" respectively for given role in a quarter
2.	> 10 but <=30	No. of absence shifts x2x Amount defined in the column "1" of above mentioned tables "Minimum Manpower Resource Table for CCC" for given role in a quarter
3.	> 30	No. of absence shifts x2x Amount defined in the column "1" of above mentioned tables "Minimum Manpower Resource Table for CCC" for given role in a quarter+ Issue of letter of warning and subsequent actions as per terms and conditions of RFP

An absence of more than half an hour from the work place, without having

permission of OIC-SDC shall be considered as absent for the shift.

The Service Provider shall deploy sufficient devices like desktops, printers, scanners, multi-function devices etc. for carrying out datacenter operations and monitoring by its manpower resources deployed. The equipment deployed shall generally not be moved from the place of installation except for the purpose of repair/ maintenance with permission of tendering authority.

Periodic training to concerned persons for procedures to be followed for ISO Certification shall be provided by the SI at no extra cost.

- **Manpower Change**

The replacement of resources by bidder after deployment will be allowed (without penalty) only in case, the resource leaves the organization by submitting resignation with the present employer. In case of failure to meet the standards of the purchaser, (which includes efficiency, cooperation, discipline and performance) bidder may be asked to replace the resource without any penalty for replacement/exit.

The penalty per resource would be imposed in case of exit/replacement of resource from the project as per the details given below

Sr.	Resource Type	Applicable Penalty when resource is leaving	
		Within 1 year of DOJ	After 1 year of DOJ
1.	Manpower resources for specialized services	Rs. 10,000 for each employees	Rs. 5,000 for each employees

Change Requests/ Management

- An institutional mechanism will be set up for taking decisions regarding requests for changes. The Purchase Committee will set up a Change Control Committee with members from the procurement agency and the selected bidder. If it is unable to reach an agreement, the decision of the Purchase Committee will be final.
- SEEPZ SEZ may at any time, by a written order given to the bidder, make changes within the general scope of the Agreement in any one or more of the following: -

Designs, specifications, requirements which software or service to be provided under the Agreement are to be specifically developed and rendered for SEEPZ SEZ.

- The method of deployment, shipping or packing.
- Schedule for Installation Acceptance.
- The place of delivery and/or the services to be provided by the bidder.
- The change request/ management procedure will follow the following steps: -
 - Identification and documentation of the need for the change - The information related to initiator, initiation date and details of change required and priority of the change will be documented by SEEPZ SEZ.
 - Analysis and evaluation of the Change Request - Impact of the change in terms of the estimated effort, changed schedule, cost and the items impacted will be analysed and documented by the bidder.
 - Approval or disapproval of the change request – SEEPZ SEZ will approve or disapprove the change requested including the additional payments for software development, quoted man-month rate shall be used for cost estimation, efforts of all technical resources- project manager, analyst, software developer, testing engineer, database architecture etc. shall be taken into account for total man-month estimation to carry out the s/w development resulting from the change request. For all technical resources irrespective of their experience and specialization, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
 - Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
 - Verification of the change - The change will be verified by SEEPZ SEZ on implementation of the change request.
- All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of SEEPZ SEZ. In the event that the consent of SEEPZ SEZ is not received then the change will not be carried out.
- While approving any change request, if required, SEEPZ SEZ may ask the bidder to deploy the required resources on-site.

- If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, equitable adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30 (thirty) days from the date of SI receiving the SEEPZ SEZ change order which shall not be unreasonably withheld or delayed.

General Requirements

I. Licensing Requirements

- A. All system software, licenses, etc. have to be procured in the name of the SEEPZ SEZ Authority
- B. The licenses should be perpetual and enterprise wide for the core application and other software unless otherwise stated. The software licenses shall not be restricted based on location and the SEEPZ SEZ Authority should have the flexibility to use the software licenses for other requirements, if required

II. Asset Management

The selected Bidder will perform the following asset management functions with respect to the infrastructure deployed at various locations:

- A. Take periodic stock of, review physical inventory and maintain stock registers of hardware at all locations covered under this Project. The selected Bidder would maintain stock registers as per format agreed with the SEEPZ SEZ Authority.
- B. Maintain documentation of the hardware assets, maintain asset Information for all Project locations, on parameters to be mutually agreed between the SEEPZ SEZ Authority and the selected Bidder, which shall include details like –
 - 1. Product type, model number, version number
 - 2. Manufacturer
 - 3. Office location
 - 4. Maintenance status, etc.
- C. Update or correct the asset information following any new installations, movement, addition, or change performed by the selected Bidder.
- D. Produce periodic reports and machine readable files in agreed upon format pertaining to some or all of the asset information.
- E. Restrict movement of server/equipment/items in or out of SEEPZ under the Project without prior permission from the SEEPZ SEZ Authority.

III. Warranty and Support

- A. The selected Bidder shall warrant that the IT Infrastructure supplied to the <State / UT> for this Project shall have no defects arising from design or workmanship or any act or omission of the selected Bidder. The warranty shall remain valid for the

Contract period on all the items supplied as per the Contract.

B. The selected Bidder shall replace any parts/ components of the IT infrastructure supplied for the Project if the components are defective and during the entire warranty period the selected Bidder shall apply latest upgrades for all the hardware components after appropriate testing. The SEEPZ SEZ Authority will not pay any additional costs separately for warranty and the overall IT infrastructure cost quoted by the selected Bidder shall include the same.

IV. Since the Project aims to reuse the common infrastructure created under SDC, SWAN, CSC, SSDG Projects, the selected Bidder will also be required to coordinate with SDC, SWAN, SSDG, CSC teams to ensure that uptime and performance requirements of the RFP are met. However, the selected Bidder shall be held solely responsible for performance and service levels of any infrastructure deployed by the selected Bidder as part of this Contract.

V. Knowledge Transfer

A. At the end of the Contract period, the selected Bidder will be required to provide necessary handholding and transition support to designated staff or any other agency that is selected for maintaining the system post the Contract with the selected Bidder. The handholding support will include but not be limited to, conducting detailed walkthrough and demonstrations for the IT Infrastructure, handing over all relevant documentation, addressing the queries/clarifications of the new agency with respect to the working / performance levels of the infrastructure, conducting training sessions etc.

B. Knowledge Transfer is an integral part of the scope of work of the selected Bidder. This will have to be done even in case the Contract with the Bidder ends or is terminated before the planned timelines.

Please note that this is only an indicative list. Any other activity, over and above these, as may be deemed necessary by the selected Bidder to meet the service levels and requirements specified in this Contract are also required to be performed by the selected Bidder at no additional cost.

Exit Management

I. Purpose

A. This sets out the provisions, which will apply on expiry or termination of the MSA, the Project Implementation, Operation and Management SLA.

B. In the case of termination of the Project Implementation and/or Operation and Management, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.

C. The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule.

II. Transfer of Assets

SEEPZ SEZ Authority shall be entitled to serve notice in writing on the SI at any time during the exit management period as detailed hereinabove requiring the SI and/or its sub-contractors to provide the SEEPZ SEZ Authority with a complete and up to date list of the Assets within 30 days of such notice. SEEPZ SEZ Authority shall then be entitled to serve notice in writing on the SI at any time prior to the date that is 30 days prior to the end of the exit management period requiring the SI to sell the Assets, if any, to be transferred to SEEPZ SEZ Authority or its nominated agencies at book value as determined as of the date of such notice in accordance with the provisions of relevant laws.

- III. In case of contract being terminated by SEEPZ SEZ Authority, SEEPZ SEZ Authority reserves the right to ask SI to continue running the project operations for a period of 6 months after termination orders are issued.
- IV. Upon service of a notice under this Article the following provisions shall apply:
 - A. In the event, if the Assets to be transferred are mortgaged to any financial institutions by the SI, the SI shall ensure that all such liens and liabilities have been cleared beyond doubt, prior to such transfer. All documents regarding the discharge of such lien and liabilities shall be furnished to the SEEPZ SEZ Authority.
 - B. All risk in and title to the Assets to be transferred / to be purchased by the SEEPZ SEZ Authority pursuant to this Article shall be transferred to SEEPZ SEZ Authority, on the last day of the exit management period.
 - C. SEEPZ SEZ Authority shall pay to the SI on the last day of the exit management period such sum representing the Net Block (procurement price less depreciation as per provisions of Companies Act) of the Assets to be transferred as stated in the Terms of Payment Schedule.
 - D. Payment to the outgoing SI shall be made to the tune of last set of completed services / deliverables, subject to SLA requirements.
 - E. The outgoing SI will pass on to SEEPZ SEZ Authority and/or to the Replacement SI, the subsisting rights in any leased properties/ licensed products on terms not less favorable to SEEPZ SEZ Authority/ Replacement SI, than that enjoyed by the outgoing SI.

Cooperation and Provision of Information During the exit management period:

- I. The <<'System integrator'>> will allow the SEEPZ SEZ Authority or its nominated agency access to information reasonably required to define the then current mode of operation associated with the provision of the services to enable the SEEPZ SEZ Authority to assess the existing services being delivered;
- II. Promptly on reasonable request by the SEEPZ SEZ Authority, the SI shall provide access to and copies of all information held or controlled by them which they have prepared or maintained in accordance with this agreement relating to any material aspect of the services (whether provided by the <<'System integrator'>> or sub-contractors appointed by the <<'System integrator'>>). The SEEPZ SEZ Authority shall be entitled to copy of all such information. Such information shall include details pertaining to the services rendered and other performance data. The <<'System integrator'>> shall permit the SEEPZ SEZ Authority or its nominated agencies to have reasonable access to its employees and facilities as reasonably required by the Chairman, PIU to understand the methods of delivery of the services employed by the <<'System integrator'>> and to assist appropriate knowledge transfer.

Confidential Information, Security and Data

- I. The <<'System integrator'>> will promptly on the commencement of the exit management period supply to the SEEPZ SEZ Authority or its nominated agency the following:
 - A. Information relating to the current services rendered and customer and performance data relating to the performance of sub-contractors in relation to the services;

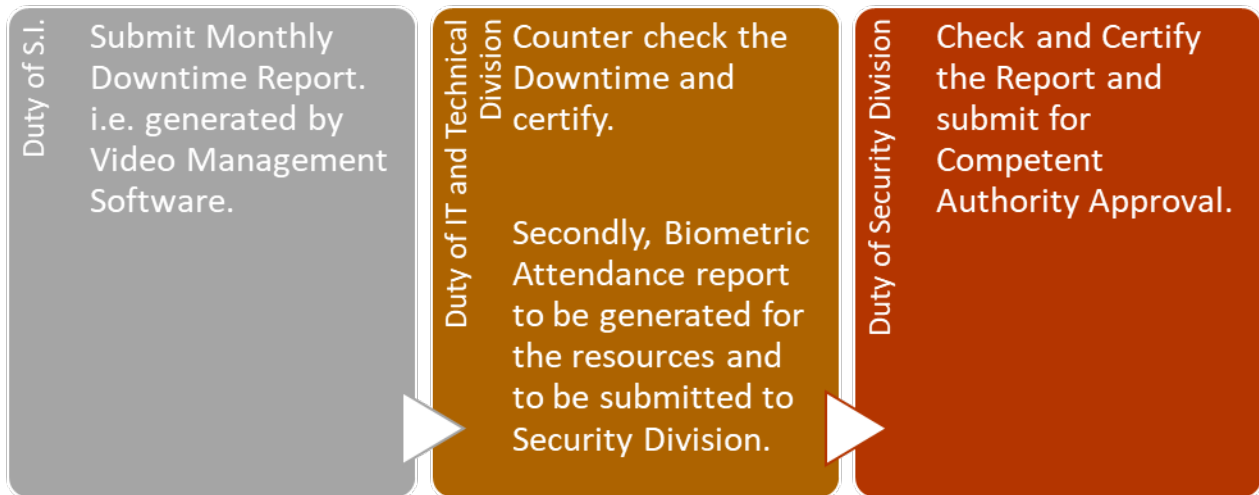
- B. Documentation relating to Computerization Project's Intellectual Property Rights;
 - C. Documentation relating to sub-contractors;
 - D. All current and updated data as is reasonably required for purposes Integrator agencies transitioning the services to its Replacement <<'System integrator'>> in a readily available format nominated by the SEEPZ SEZ Authority;
- II. Before the expiry of the exit management period, the <<'System integrator'>> shall deliver to the SEEPZ SEZ Authority or its nominated agency all new or up-dated materials from the categories set out in Schedule above and shall not retain any copies thereof, except that the <<'System integrator'>> shall be permitted to retain one copy of such materials for archival purposes only.
- III. Before the expiry of the exit management period, agency shall deliver to the SEEPZ SEZ Authority all forms of <<'System integrator'>> confidential information, which is in the possession or control of supervisor or its users.

Exit Management Plan

- I. The <<'System integrator'>> shall provide the SEEPZ SEZ Authority or its nominated agency with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the as a whole and in relation to the Project Implementation, and the Operation and Management SLA.
 - A. A detailed program of the transfer process that could be used in conjunction with a Replacement <<'System integrator'>> including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer;
 - B. Plans for the communication with such of the <<'System integrator'>>'s sub-contractors, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on the SEEPZ SEZ Authority's operations as a result of undertaking the transfer;
 - C. (if applicable) proposed arrangements for the segregation of the <<'System integrator'>>'s networks from the networks employed by SEEPZ SEZ Authority and identification of specific security tasks necessary at termination;
 - D. Plans for provision of contingent support to SEEPZ SEZ Authority, and Replacement <<'System integrator'>> for a reasonable period after transfer.
- II. The <<'System integrator'>> shall re-draft the Exit Management Plan annually thereafter to ensure that it is kept relevant and up to date.
- III. Each Exit Management Plan shall be presented by the <<'System integrator'>> to and approved by the SEEPZ SEZ Authority or its nominated agencies.
- IV. The terms of payment as stated in the Terms of Payment Schedule include the costs of the <<'System integrator'>> complying with its obligations under this Schedule.
- V. In the event of termination or expiry of MSA, and Project Implementation, each Party shall comply with the Exit Management Plan.
- VI. During the exit management period, the <<'System integrator'>> shall use its best efforts to deliver the services.
- VII. Payments during the Exit Management period shall be made in accordance with the Terms of Payment Schedule.

VIII. This Exit Management plan shall be furnished in writing to the << Designated Official>> within 90 days from the Effective Date of this Agreement.

Inspection Team and Management:



Format of Financial Bid

The form for submission of financial bid in MS Excel format is uploaded on the e-procurement portal simultaneously with these bidding documents in accordance with ITB Clause 7 a). Bidders are required to quote rates against all line items and include other charges, if any based on their experience of organizing similar events, under the 'overheads and service charges' line item.

Section 6 – Bidding Forms

SN	Name of the Form	Page No.
1	Letter of Bid	85-86
2	Checklist of documents comprising bid	87
3	Bidder Information Form	88
4	Bidder's Qualification Information	89-91
5	Financial Bid Format	Uploaded Separately as a .xls file

1. Letter of Bid

The Bidder must prepare the Letter of Bid on its letterhead clearly showing the Bidder's complete name and address.

Note: All italicized text is for use in preparing these forms and shall be deleted from the final products.

Date:

Bid Ref. No.:

To,
The Development Commissioner
SEEPZ Service Centre Building,
SEEPZ SEZ, Andheri (East), Mumbai-400 096

1. We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders;
2. We meet the eligibility requirements in accordance with ITB 4 and have no Conflict of Interest in accordance with GFR 175;
3. We offer to perform, in conformity with the Bidding Documents, the following Non-Consultancy Services: "Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ".
4. Our final financial offer is as submitted in our financial bid.
5. Our bid shall remain valid for 180 days from the last date of submission of the bid and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
6. If our bid is accepted, we commit to submit a performance security in accordance with the Bidding Documents;
7. We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process;
8. We, along with any of our subcontractors, suppliers, Service Providers, manufacturers, or service providers for any part of the contract, are not debarred by any procuring entity under the State Government, the Central Government or any State Government or any Public Undertaking, Autonomous body, Authority by whatever name called under them;
9. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any activities which is in contravention of the Code of Integrity proscribed in GFR 175;
10. We hereby certify that we are neither associated nor have been associated directly or indirectly with the Service Provider or any other individual or entity that has prepared the design, specifications and other documents for the subject matter of procurement or

is being proposed as Project Manager for the contract from the SEEPZ SEZ Authority;

11. We hereby certify that we have fulfilled our obligations to pay all such taxes as payable to the Central Government or the State Government or any local authority;
12. We hereby certify that we are not insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons;
13. We hereby certify that our directors and officers have not been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
14. 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; and
15. We understand that SEEPZ SEZ Authority is not bound to accept the lowest evaluated bid or any other bid that SEEPZ SEZ Authority may receive and that the decision of the SEEPZ, SEZ authority shall be final & binding.

Name of the Bidder:

Name of Bidder's Authorized Signatory:

Designation of the person signing the Bid:

Signature of the person named above

Date signed

2. Checklist of documents comprising bid

SN	Document	Included (Y/N)	Page No.
1	Letter of Bid as per the form provided in Section 6 – Bidding Forms		
2	Bid Security declaration furnished in accordance with Annexure I		
3	Bidder Information Form as per Form provided in Section 6: Bidding Forms		
4	Documents establishing Bidders' eligibility in accordance with BDS (ITB 4 a)		
5	Documents establishing Bidders' qualification in accordance with Forms given in Section 6: Bidding Forms		
6	An Undertaking duly signed on the letter head from the Bidders to the effect that they agree and abide by the clauses / conditions of Bidding Documents issued by the Procuring Entity and any amendment made thereafter.		
7	Financial Bid (to be uploaded in a separate folder)		NA

3.

Bidder Information Form

Date:

Bid Ref. No.:

Bidder's Name:	
Bidder's legal entity status:	Firm / LLP / Pvt. Ltd. Company / Ltd. Company
Bidder's year of incorporation / registration:	
Bidder's complete registered address:	
Bidder's PAN:	
Bidder's GSTIN:	
Information regarding bidder's authorized representative:	Name: Designation: Address: Email:
Name(s) of promoter(s) and members of the board of directors.	
Bidder's bank account details:	Account Name: Bank Name: Branch Name: IFSC Code:

4. Bidder's Qualification Information

SN	Criterion	Bidder's Qualification	Documents to be submitted	Documents submitted	Page No.
1	Legal Entity		<p>- Copy of valid Registration Certificates</p> <p>In case of Company</p> <p>- Copy of Certificate of incorporation</p> <p>In case of a consortium, a Consortium Agreement must be submitted, duly signed by the consortium members.</p>		
2	Financial: Turnover from IT/ ITeS		CA Certificate with CA's Registration Number/ Seal		
3	Financial: Net Worth		CA Certificate with CA's Registration Number/ Seal		

4	Technical Capability -I		Self-declaration with project reference And Work Completion Certificates from theclient; OR Work Order + Self Certificate ofCompletion		
5	Technical Capability -II		Self-Certificate of Advisory Service and proof of ISO Certifying Authority details.		
6	Technical Capability for proposed VMS Vendor-I		Work Completion Certificates from theclient; OR Work Order + Self Certificate of Completion (Certified by the Statutory Auditor);OR Work Order + Phase Completion Certificate from the client		
7	Technical Capability for proposed VMS Vendor-II		Valid OEM Authorization certificates of lead or consortium bidder for all 3 category.		
8	Tax registration and clearance		Copies of relevant certificates of registration of lead bidder.		
9	Certifications		Copy of a validcertificate-online traceable and self-attested by lead bidder or consortium bidder		
10	Technical Expertise		Copy of CVs with self-declaration in company letter head of the lead bidder.		

11	Mandatory Undertaking		A Self Certified in letter head.		
12	Approach, methodology and Work plan including the AutoCAD -3D designs with proper reference from the Generic Specifications for the equipment (at Annexure 2).		Coloured Copy of Presentation		

Section 7 – General Conditions of Contract (GCC)

1. General Provisions	
1.1 Definitions	<p>Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:</p> <ul style="list-style-type: none"> a) “Completion Date” means the date of completion of the Services by the Service Provider as certified by the Employer; b) “Contract” means the Contract signed by the Parties, to which these General Conditions of Contract (GCC) are attached, together with all the documents listed in Clause 1 of such signed Contract, as named in SCC; c) “Contract Price” means the the price to be paid for the performance of the Service, in accordance with Clause 6s; d) “Employer” means the party who employs the Service Provider as specified in SCC; e) “GCC” means these General Conditions of Contract; f) “Party” means the Employer or the Service Provider, as the case may be, and “Parties” means both of them; g) “Personnel” means persons hired by the Service Provider as employees and assigned to the performance of the Services or any part thereof; h) “Service Provider” is a person or corporate body whose Bid to provide the Services has been accepted by the Employer as specified in SCC; i) “Service Provider’s Bid” means the completed Bidding Document submitted by the Service Provider to the Employer; j) “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented; k) “Services” means the work to be performed by the Service Provider pursuant to this Contract, as described in Appendix A - Schedule of Activities;
1.2 Applicable Law	The Contract shall be interpreted in accordance with the laws of the Union of India.
1.3 Language	This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.
1.4 Notices	Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the

	<p>SCC. The term “in writing” means communicated in written form with proof of receipt. A notice shall be effective from the date of delivery or on the notice’s effective date, whichever is later. In case of electronic mode of communication, a notice shall be effective from the time of sending of the electronic communication.</p>
1.5 Location	<p>The Services shall be performed at the client’s location as specified in the SCC.</p>
1.6 Authorized Representatives	<p>Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Employer or the Service Provider may be taken or executed by the officials specified in the SCC.</p>
1.7 Taxes and Duties	<p>The Service Provider and their Personnel shall pay such taxes, duties, fees, and other impositions as may be levied under the Applicable Law, the amount of which is deemed to have been included in the Contract Price.</p>
1.8 Code of Integrity	<p>The Employer, the Service Provider and their representatives shall strictly adhere to the code of integrity as stipulated under GFR 175.</p>
2. Commencement, Completion, Modification, and Termination of Contract	
2.1 Effectiveness of Contract	<p>This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.</p>
2.2 Commencement of Services	
2.2.1 Program	<p>Before commencement of the Services, the Service Provider shall submit to the Employer for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.</p>
2.2.2 Starting Date	<p>The Service Provider shall start carrying out the Services thirty (30) days after the date the Contract becomes effective, or at such other date as may be specified in the SCC.</p>
2.3 Intended Completion Date	<p>Unless terminated earlier pursuant to Sub-Clause 2.6, the Service Provider shall complete the activities by the Intended Completion Date, as is specified in the SCC. If the Service Provider does not complete the activities by the Intended Completion Date, it shall be liable to pay liquidated damage as per Sub-Clause 3.8. In this case, the Completion Date will be the date of completion of all activities.</p>
2.4 Modification	<p>Modification of the terms and conditions of this Contract,</p>

	including any modification of the scope of the Services or of the Contract Price, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
2.5 Force Majeure	
2.5.1 Definition	For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.
2.5.2 No Breach of Contract	The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.
2.5.3 Extension of Time	Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
2.5.4 Payments	During the period of their inability to perform the Services as a result of an event of Force Majeure, the Service Provider shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.
2.6 Termination	
2.6.1 By the Employer	<p>The Employer may terminate this Contract, by not less than thirty (30) days’ written notice of termination to the Service Provider, to be given after the occurrence of any of the events specified in paragraphs (a) through (d) of this Sub-Clause 2.6.1:</p> <ul style="list-style-type: none"> a. if the Service Provider does not remedy a failure in the performance of its obligations under the Contract, within thirty (30) days after being notified or within any further period as the Employer may have subsequently approved in writing; b. if the Service Provider become insolvent or bankrupt; c. if, as the result of Force Majeure, the Service Provider is unable to perform a material portion of the Services for a period of not less than sixty (60) days; or

	<p>their own corporate interests.</p> <p>3.2.2 The Service Provider agrees that, during the term of this Contract and after its termination, the Service Provider and any entity affiliated with the Service Provider shall be disqualified from providing goods, works or non-consulting services resulting from or directly related to the Services for the preparation or implementation of the project, unless otherwise indicated in the SCC.</p>
3.3 Confidentiality	<p>The Service Provider, its Subcontractors, and the Personnel of either of them shall not, either during the term or within two (2) years after the expiration of this Contract, disclose any proprietary or confidential information relating to the Project, the Services, this Contract, or the Employer's business or operations without the prior written consent of the Employer.</p>
3.4 Insurance to be Taken Out by the Service Provider	<p>The Service Provider (a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Employer, insurance against the risks, and for the coverage, as shall be specified in the SCC; and (b) at the Employer's request, shall provide evidence to the Employer showing that such insurance has been taken out and maintained and that the current premiums have been paid.</p>
3.5 Service Provider's Actions Requiring Employer's Prior Approval	<p>The Service Provider shall obtain the Employer's prior approval in writing before taking any of the following actions:</p> <ul style="list-style-type: none"> a. entering into a subcontract for the performance of any part of the Services, b. changing the Program of activities; and c. Any other action that may be specified in the SCC.
3.6 Reporting Obligations	<p>The Service Provider shall submit to the Employer the reports and documents as specified in the SCC.</p>
3.7 Documents Prepared by the Service Provider to Be the Property of the Employer	<p>All plans, drawings, specifications, designs, reports, and other documents and software submitted by the Service Provider in accordance with Sub- Clause 3.6 shall become and remain the property of the Employer, and the Service Provider shall, not later than upon termination or expiration of this Contract, deliver all such documents and software to the Employer, together with a detailed inventory thereof. The Service Provider may retain a copy of such documents and software. Restrictions about the future use of these documents, if any, shall be specified in the SCC.</p>

3.8 Liquidated Damages	
3.8.1 Payments of Liquidated Damages	The Service Provider 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 the Service Provider. Payment of liquidated damages shall not affect the Service Provider's liabilities.
3.8.2 Lack of performance penalty	If the Service Provider has not corrected a Defect within the time specified in the Employer's notice, a penalty for Lack of performance will be paid by the Service Provider. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as described in Clause 9 and specified in the SCC.
3.9 Performance Security	The Service Provider shall provide the Performance Security to the Employer no later than the date specified in the Letter of Acceptance. The Performance Security shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The performance Security shall be valid until a date 28 days from the Completion Date of the Contract in case of a bank guarantee.
3.10 Adherence to laws, regulations and statutory requirements	The Service Provider shall carry out all its services in accordance with all the applicable laws, regulations, environmental guidelines and statutory requirements that are legally in force. Additionally, the Service Provider shall comply with the statutes enlisted in the SCC.
4. Service Provider's Personnel	
4.1 Description of Personnel	The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Service Provider's Key Personnel are described in Appendix B. The Key Personnel listed by title as well as by name in Appendix B are hereby approved by the Employer.
4.2 Removal and/or Replacement of Personnel	4.2.1 Except as the Employer may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Service Provider, it becomes necessary to replace any of the Key

	<p>Personnel, the Service Provider shall provide as a replacement a person of equivalent or better qualifications.</p> <p>4.2.2 If the Employer finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Service Provider shall, at the Employer's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Employer.</p> <p>4.2.3 The Service Provider shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.</p>
5. Obligations of the Employer	
5.1 Assistance and Exemptions	The Employer shall use its best efforts to provide the Service Provider such assistance and exemptions as specified in the SCC.
5.2 Change in the Applicable Law	If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the Services rendered by the Service Provider, then the remuneration and reimbursable expenses otherwise payable to the Service Provider under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred to in Sub-Clause 6.2.
6. Payments Schedule	
6.1 Contract Price	<p>6.1.1 The Service Provider's Contract Price shall be net of all costs incurred by the Service Provider in carrying out the Services described in Appendix A. The Contract Price is set forth in the SCC. The Contract price breakdown is provided in Appendix C.</p> <p>6.1.2 Any change to the Contract price specified in Clause 6.1.1 can be made only if the Parties have agreed to the revised scope of Services pursuant to Clause GCC 2.4 and have amended in writing the Terms of Reference in Appendix A.</p>
6.2 Taxes and Duties	<p>6.2.1 The Service Provider is responsible for meeting any and all tax liabilities arising out of the Contract.</p> <p>6.2.2 As an exception to the above and as stated in the SCC, the GST is reimbursed to the Service Provider.</p>

6.3 Mode of Billing and Payment	<p>6.3.1 The total payments under this Contract shall not exceed the Contract price set forth in Clause GCC 6.1.1.</p> <p>6.3.2 The payments under this Contract shall be made on a pro-rata basis as per the events schedule based on satisfactory performance of services.</p> <p>6.3.3 The Client shall pay the Service Provider within forty-five (45) days after the receipt by the Client of the deliverable(s) and the cover invoice for the related lump-sum installment payment. The payment can be withheld if the Client does not approve the submitted deliverable(s) as satisfactory in which case the Client shall provide comments to the Service Provider within the same forty-five (45) days period. The Service Provider shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated.</p> <p>6.3.4 The final payment under this Clause shall be made only after the final report have been submitted by the Service Provider and approved as satisfactory by the Client. The Services shall then be deemed completed and finally accepted by the Client. The last lump-sum installment shall be deemed approved for payment by the Client within sixty (60) calendar days after receipt of the final report by the Client unless the Client, within such sixty (60) calendar day period, gives written notice to the Service Provider specifying in detail deficiencies in the Services, the final report. The Service Provider shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated.</p> <p>6.3.5 All payments under this Contract shall be made to the accounts of the Service Provider specified in the SCC.</p>
7. Settlement of Disputes	
7.1 Amicable Settlement	<p>The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.</p>
7.2 Dispute Settlement	<p>Any dispute between the Parties arising under or related to this Contract that cannot be settled amicably may be referred to by either Party to the adjudication / arbitration in accordance with the provisions specified in the SCC.</p>
8. Extension of the duration of contract	
	<p>This contract may be extended, prior to its expiry, for a mutually agreeable period not exceeding 6 months, provided that a fresh procurement activity is initiated before the expiry of the original contract.</p>

Section 8 – Special Conditions of Contract (SCC)

Number of GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.1(b)	The contract name is “Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ”
1.1(d)	The Employer is <i>SEEPZ SEZ Authority, Andheri, Mumbai</i>
1.1(h)	The Service Provider is _____
1.4	<p>The addresses are:</p> <p>Employer : SEEPZ SEZ Authority, SEEPZ SEZ, MIDC Central Road, Andheri East, Mumbai 400096</p> <p>Attention : Development Commissioner, SEEPZ SEZ Authority</p> <p>E-mail: dcseepz-mah@nic.in</p> <p>Service Provider :</p> <p>Attention :</p> <p>Facsimile :</p> <p>E-mail: _</p>
1.6	<p>The Authorized Representatives are:</p> <p>For the Employer: <i>SEEPZ SEZ Authority, Mumbai</i></p> <p>For the Service Provider: <i>[name, title]</i> _____</p>
2.1	No change to the GCC clause.
2.2.2	The Starting Date for the commencement of Services is immediately after contract signing.
2.3	The Intended Completion Date is <u>June 2025</u> .

3.2.2	The Client reserves the right to determine on a case-by-case basis whether the service should be disqualified from providing goods, works or non-consulting services due to a conflict of a nature described in Clause GCC 3.2
3.4	The risks and coverage by insurance shall be: (i) Employer's liability and workers' compensation – as stipulated in the employees' compensation act.
3.7	There are no specific restrictions.
3.8.2	The lack of performance penalty shall be equal to the cost incurred by the employer towards correcting the defects / deficiencies. The same shall be deducted from payments due to the service provider.
5.1	The Employer shall provide necessary assistance in providing gate-passes for smooth entry of the Service Provider's vehicles and employees.
7	Disputes shall be resolved by way of arbitration as stipulated under the Arbitration and Conciliation Act, 1996 as amended till date.

Appendix A – Scope of Work

{To be inserted as per Section 5 after incorporating changes if any made vide corrigenda}

Appendix B – Key Personnel

{Service Provider shall insert the Work Profile of the Contract Manager here}

Appendix C – Breakdown of Contract Price

{Service Provider shall insert the breakdown as per price bid here}

Section 9 – Contract Forms

1. Letter of Acceptance

{ On Employer's Letterhead }

Date:

To: *{ Insert Name and Address of the Successful Bidder }*

Subject: Letter of acceptance of your bid against tender ref. no.:
Enter Ref. No.

This is to notify you that your Bid dated *[insert date of bid submitted by the bidder]* for the execution of services titled “Upgradation of the Surveillance CCTV network with integration of a Command and Control Centre & Comprehensive Annual Maintenance of CCC & CCTV system in SEEPZ SEZ” against Bid Invitation Ref. No. *[insert Bid Ref. No.]* is hereby accepted by the Employer for the Contract Price of Rs. *[insert amount in numbers and words]*, as evaluated in accordance with the Instructions to Bidders.

You are requested to furnish the Performance Security within 28 days in accordance with the Conditions of Contract, in the form of a bank guarantee / fixed deposit amounting to 3% of the contract value.

Authorized Signature:

Name and Designation of Signatory:

Name of Employer:

2. Form of Contract

This CONTRACT (hereinafter called the “Contract”) is made the [day] day of the month of [month], [year], between, on the one hand, [name of Employer] (hereinafter called the “Employer”) and, on the other hand, [name of Service Provider] (hereinafter called the “Service Provider”).

WHEREAS

- a. the Employer has requested the Service Provider to provide certain Services as defined in the Conditions of Contract attached to this Contract (hereinafter called the “Services”);
- b. the Service Provider, having represented to the Employer that they have the required professional skills, and personnel and technical resources, have agreed to provide the Services on the terms and conditions set forth in this Contract at the contract price of Rs. [insert Contract Price];

NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents shall be deemed to form and be read and construed as part of this Agreement, and the priority of the documents shall be as follows:

- a. The Letter of Acceptance;
- b. The Service Provider’s Bid
- c. The Special Conditions of Contract;
- d. The General Conditions of Contract;
- e. The following Appendices:

Appendix A: Terms of Reference-Scope of Work

Appendix B: Key Personnel

Appendix C: Breakdown of Contract Price

2. The mutual rights and obligations of the Employer and the Service Provider shall be as set forth in the Contract, in particular:

- a) The Service Provider shall carry out the Services in accordance with the provisions of the Contract; and

- b) The Service Provider shall make payments to the Employer in accordance with the provisions of the Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be signed in their respective names as of the day and year first above written.

For and on behalf of [name of Employer]

[Authorized Representative]

For and on behalf of [name of Service Provider]

[Authorized
Representative]