

AIRPORTS AUTHORITY OF INDIA

Chennai Airport, Chennai

Department of Airport Systems

TENDER DOCUMENT

Tender Processing fee: INR 1,180.00(Non-refundable)
(Rupees One Thousand One Hundred Eighty only.)

Name of Work: Provision of SCCTV system at vehicles access gates, air side bay
and AAI kalyanamandapam at Chennai Airport.

Tender ID: 2018_AAI_6786_1

Estimated Cost: INR 38,24,399.00 Including GST
(Rupees Thirty Eight Lakhs Twenty Four Thousand Three Hundred
and Ninety Nine only)

Jt. GM (Airport Systems),
Airports Authority of India,
Admin. Building, Chennai Airport,
Chennai - 600027

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NAME OF WORK: Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport.

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Certified that this tender document contains total 167 pages excluding cover pages.

Sd/-

Jt. GM (Airport Systems)
AAI, ChennaiAirport, Chennai.

AIRPORTS AUTHORITY OF INDIA

Item Rate Tender & Contract for Work

Airport: Chennai

Branch: Airport Systems

No: AAI/MAA/LMD/CCTV/GATE-BAY/17-18/

Date:29.01.2018

Notice Inviting E-Tender (Tender ID- 2018_AAI_6786_1)

1. Item rates e-tenders are invited through the CPP portal by Jt. GM (Airport Systems), AAI, Admin. Building, Chennai Airport, Chennai) on behalf of Chairman, AAI, from the eligible contractors for the work of “ *Provision SCCTV System at Vehicles access gates,air side bay and AAI kalyanamandabam at Chennai Airport*” at an estimated cost of INR 38,24,399.00 Including GST (Rupees Thirty Eight Lakhs Twenty Four Thousand Three Hundred and Ninety Nine only) with period of completion Twenty Days.
 - 1.1. The tendering process is online at e-portal URL Address <https://etenders.gov.in/eprocure/app> only. Aspiring bidders may download and go through the tender document.
 - 1.2. Prospective tenderers are advised to get themselves acquainted for e-tendering participation requirements at “Instruction for Online Bid Submission”, register themselves at CPP portal, obtain ‘Login ID’ & ‘Password’ and go through the ‘self-help files’ available in the home page after login to the CPP portal www.etenders.gov.in They should also obtain *Digital Signature Certificate* (DSC) in parallel which is essential for submission of their application. The tenderer may take guidance from AAI Help Desk Support through path www.aai.aero ->Tender->E-Tender->Help Desk Support.
 - 1.3. Tender fee of INR1,180.00 (including GST) non-refundable, will be required to be paid offline in the form of Demand Draft from Nationalized or any scheduled bank (but not from co-operative or Gramin bank) drawn in favour of *Airports Authority of India* payable at *Chennai*.
 - 1.4. EMD of the value of INR 76,488 (Rupees Seventy Six Thousand Four Hundred Eighty Eight only) shall be accepted offline in the form of demand draft on from a nationalized or any scheduled bank (but not from co-operative or Gramin bank) drawn in favour of *Airports Authority of India* payable at *Chennai*.
 - 1.5. The original Demand Draft for Tender Fee and EMD, Hard Copy of Acceptance Letter Undertaking (Annexure I) should reach by Post/Courier/given in person to the office of

Signature of Bidder:

Bid Manager [Jt. GM (Airport Systems) Airports Authority of India, Admin. Building, Chennai Airport, Chennai latest by 1500 IST on 07.02.2018. Any postal delay will not be entertained.

- 1.6. The details of Demand Draft/any other accepted instruments, physically sent, should tally with the details available in the scanned copy and data entered by bidder during bid submission time.
- 1.7. Any amendment or corrigendum to the tender document shall be posted only on CPP portal. It is the bidders' responsibility to check for any amendment/corrigendum on the Central Public Procurement website or check for the same from the tender issuing authority before submitting their duly completed bids.
- 1.8. Qualifying requirements for Tenderer:
- 1.8.1. **Work Experience:** Tenderer, during the last seven years ending on last date/extended date of submission of e-bid, should have satisfactorily completed:
- a) Three works, each of value more than or equivalent to INR 15,29,760/- or
 - b) Two works, each of value more than or equivalent to INR 19,12,200/- or
 - c) One work of value more than or equivalent to INR 30,59,519/-
- Having successfully completed in single contract in respect of "Supply, Installation, Testing, and Commissioning of IP based Surveillance CCTV for one integrated system at single site.
- (Phase/Part completion of the scope of work in a contract shall not be considered)
- 1.8.2. **Performance/Experience Certificate:** Tenderer is required to submit Client certificate for experience claimed against eligibility criteria at Para 1.8.1, indicating the nature/scope of work done, contract value, date of start, date of completion as per agreement, actual date of completion, satisfactory completion of work, and Client Contact details (Postal Address, Email, Phone No.). Tenderer shall also submit copies of respective purchase/award orders.
- Firms showing work experience certificate from non-government/non-PSU organizations should submit copy of Tax Deduction at Source Certificate in support of their claim for having experience of stipulated value of work.
- 1.8.3. **Financial Turnover:** Tenderer should have annualized average financial turnover equivalent to **INR 11,47,320 /-** against work executed during last three years ending 31st March of the previous financial year. As a proof, copy of Abridged Balance Sheet along with profit and loss account statement of the firm should be submitted along with

the application. Firms showing continuous losses during the last three years in the balance sheet shall be summarily rejected.

1.8.4. Maintenance Set-Up: Bidder firm shall have its own Maintenance Setup in Chennai. Bidder shall submit Postal Address, Email and Telephone number of their own functional maintenance set-up at Chennai. Alternatively, bidder shall submit an undertaking that the bidder shall establish its own maintenance set-up in Chennai, within THIRTY days of the award of work, and it shall be functional for the whole duration of the lifetime of the equipment (estimated to be SEVEN YEARS).

1.8.5. Checklist as per Proforma at 'Annexure-III & IV (dully filled & signed) shall be submitted by tenderers.

1.8.6. Bidder shall submit an undertaking (As per Performa at Annexure- V) stating:

- i) Bidder firm, or its Partners or its Directors have not been blacklisted or any case is pending or any complaint regarding irregularities is pending, in India or abroad, by any global international body like World Bank/International Monetary Fund/World Health Organization, etc. or any Indian State/Central Governments Departments or Public Sector Undertaking of India.

Bidder firm(s) not meeting this criterion may not apply. At any stage of evaluation, if it is found that bidder firm has given wrong or misleading information, then the bid of such bidder firm(s) shall not be evaluated further and shall be liable for rejection. In such cases, the corresponding bidder firm's EMD shall be forfeited and the bidding firm shall be blacklisted for a period of FIVE YEARS in AAI.

- ii) Bidder firm shall possess the required tools, plants, skilled manpower, etc. required for execution of the subject scope of work in the tender at site.
- iii) Bidder firm shall not sublet or outsource any part of the scope of work to any third party without written consent from AAI. The requisite consent of AAI, in this regard, shall be taken by the successful bidder after award of work and before commencement of work.
- iv) The complete responsibility to carry out works as per the scope of tender and completion of the work shall be of the bidder firm only.
- v) No bidder firm or its subsidiary firm or its parent firm shall be allowed to submit alternate or partial bids.

1.8.7. Original Equipment Manufacturer (OEM)/Authorized Representative (AR) of OEM Bidders shall submit OEM Declaration/Authorization as per Proforma at 'Annexure-VI'. System Integrator Bidders shall submit Undertaking as per Proforma at 'Annexure-VII'.

2. Pre-Bid Query and Reply:
- 2.1. In case bidder intends to seek any clarifications from department, it may be uploaded in “Tender Management Head ---- seek clarification folder” on CPP Portal.
- 2.2. Intending bidder must check query section of “Tender Management Head ---- seek clarification folder” regularly to get replies against his queries. The department may seek clarification or further information through this folder for which replies may be required urgently.
3. **Bid Submission:** Following THREE envelopes shall be submitted by the bidder online at CPP portal, as per the following schedule:

	CRITICAL DATE SHEET	
1.	Bid Publishing Date	30.01.2018 (0900 IST)
2.	Bid Document Download/Sale Start Date	30.01.2018 (0900 IST)
3.	Clarification Start Date	30.01.2018 From 0900 IST
4.	Clarification End Date	02.02.2018 up to 1600 IST
5.	Bid Submission Start Date (Envelop-I, II,& III)	01.02.2018 From 1000 IST
6.	Bid Submission End Date (Envelop-I, II & III)	05.02.2018 up to 1500IST
7.	Last Date & Time for submission of Original DD against EMD and Tender Fee, signed hard copy of Acceptance Letter Undertaking	07.02.2018 up to 1500 IST
8.	Bid Opening Date (Envelope-I)	7.02.2018at 1530 IST
9.	Bid Opening Date (Envelope-II)	To be intimated later
10.	Bid Opening Date (Envelope-III)	To be intimated later

- 3.1. **Envelope I (Fee Bid):** Containing scanned copy of the following:
- Demand Draft (DD) in respect of Tender Fee & Earnest Money Deposit
 - Valid NSIC/MSME registration certificate issued by the Competent Authority, in case of seeking exemption of Tender Fee & EMD by the NSIC/MSME registered firms.
 - Duly Stamped & Signed Acceptance Letter Undertaking (Annexure-I).
 - Power of Attorney or Authorization: Annexure-II, (If applicable).
 - Duly filled and signed Bid Checklist as per Annexure-III
- 3.2. **Envelope II (PQ/Technical Bid):** Containing qualifying requirements of Contractor/Firms
- 3.2.1. The tenderer shall submit their application by uploading the digitally signed files of following scanned documents in support of their meeting the qualifying criteria.
- 3.2.2. Hard copy of application shall not be entertained.

Sl. #	Pre-Qualification/Technical Bid Documents	Upload File (PDF) named as
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A.	Index Page	A_01.PDF
01.	Duly filled and signed PQ/Technical Bid Checklist as per Annexure-IV	
02.	Undertaking (As per Annex.-V, Annex. VI/VII)	
03.	Credentials as registered bidder firm [Articles of Memorandum of Association or Partnership Deed or Proprietorship Deed, Certificate of Company Registration, (as Applicable) /PAN/GST].	
04.	Certificate from Chartered Accountant certifying financial turnover for the last THREE YEARS and Certified copies of Abridged Audited Balance Sheets along with Profit & Loss Account.	A_02.PDF
05.	Copies of purchase orders in proof of experience of works claimed by the bidder.	A_03.PDF
06.	Performance/Experience certificates (As per Para 1.8.2)	
07.	Make & Model for the offered items as per the Annexure IX ISO certificate(s) , in respect of the OEM(s) facility manufacturing the offered product (Camera and NVR) Supporting technical documents, etc.,.	A_04.PDF
08	Unfilled Tender document along with all pre-bid query replies and corrigendum (if any)	A_05.PDF

3.2.3. It shall be clearly understood that PQ/Technical Bid is only for eligibility & technical evaluation of bidder firm as per scope of this tender.

3.2.4. PQ/Technical bid shall not contain Price of quote/information; otherwise the technical bid of such bidding firm shall be disqualified.

3.3. **Envelope-III (Financial e-Bid):**To be uploaded through CPP Portal only.

3.3.1. All rates shall be quoted in the format provided and no other format is acceptable. The price bid has been given as a standard BOQ format with the tender document. 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.

3.3.2. After uploading of the bid, contractor can revise bid any number of times but before last date and time of submission of bid as notified. While uploading the revised bid,

contractor can revise the rate of one or more item(s) any number of times (need not re-enter rate of all the items) before last date and time of submission of bid as notified.

- 3.4. All submissions by bidder on CPP portal shall be in English language and documents shall be digitally signed using appropriate class of digital certificate issued by Indian Digital Certificate issuing authority. Certified English translation must be submitted along with the documents, which are not in English language.
- 3.5. Tenders, in which any of the particulars and prescribed information are missing or are incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and are liable to be rejected.
- 3.6. It is the responsibility of every bidder to upload its bid on e-Procurement portal well in time. If any bidder is not able to upload its bid on e-Procurement portal for reasons whatsoever, AAI will not be responsible for the same.
- 3.7. Tenders which are duly submitted on e-Procurement portal (CPPP) shall only be final, and tenders just saved without submission will not be available to the evaluation purpose. Bidders are requested to go through FAQ and help files available in the portal (CPPP). In case of any difficulty, bidders may contact the help desk numbers and emails ID provided in the CPP Portal. Bid documents shall be legible, and may be scanned with 100 dpi with black & white option which helps in reducing size of the scanned document.

4. Address For Correspondence

All tender submittals and enquiries regarding clarification/interpretation in connection with this tender shall be addressed by the authorised signatory to:

Jt. General Manager (Airport Systems)

Airports Authority of India

Admin. Building, Chennai Airport, Chennai - 600016

Tele Fax: +91 44 2256 0525

E-mail: kravikumar@aai.aero

4.1.1. **Refund of EMD**

EMD of unsuccessful bidders who fail to qualify the eligibility/technical stage shall be returned within SEVEN days of the rejection. For all bidders who qualify and their financial bids are opened, the EMD other than L-1 bidder shall be returned within SEVEN days of opening of the financial bid.

5. **Bids Opening Process** shall be as under:

- 5.1. **Step 1:** Envelope-I (Fee Bid) containing documents (uploaded by the contractors/firms) shall be opened on the Date & Time as mentioned in Critical Date Sheet. The intimation

regarding acceptance/rejection of their bids will be intimated to the contractors/firms through CPP portal.

- 5.2. **Step 2:** Envelope-II (Pre-Qualification / Technical bid) shall be opened on the Date & Time as mentioned in Critical Date Sheet. (Depending on Envelope-I evaluation, if any changes in the date shall be intimated through 'CPP Portal').
- 5.3. If any clarification is needed from the bidder about the deficiency in his uploaded documents in Envelope-I and Envelope-II, he will be asked to provide it through CPP Portal. The bidder shall upload the requisite clarification/documents within time specified by AAI, failing which tender will be liable for rejection.
- 5.4. To short-list bidders in step 1 and 2, opened e-bids responses of eligible bidders shall be scrutinised by AAI to ensure whether the same are in conformity with the tender requirements. Bidder shall provide complete information to substantiate compliance of the requirements listed in the tender. In case of incomplete compliance statement or inadequate information, tender shall be finalized on the basis of the information available.
- 5.5. It shall, therefore, be in the bidders' interest to give complete and comprehensive particulars, description and details while submitting their e-bid responses. However, AAI may seek clarifications on tender requirements or any other information deemed necessary.
- 5.6. If required, Hard copy of Envelope II, bid submittals may be sought by AAI, for offline verification, after opening of the respective bid response on e-tender portal.
- 5.7. In case there is any difference/discrepancies between hard and uploaded e-bid responses on e-tender portal, then the copy available to AAI through e-tender portal only shall be taken into cognizance, and not the hard copy.
- 5.8. **Step 3:** Envelope-III, (Financial bid) of the short-listed bidders in step 1 and 2 shall be opened on Date & Time as mentioned in Critical Date Sheet.
- 5.9. Price Bid opened on CPP portal only shall be evaluated by AAI, as per tender conditions. Price Bid with the lowest price will be the highest evaluated bid, eligible for further consideration/negotiation with AAI.

6. Rejection & Return of Tender

- 6.1. The competent authority on behalf of the Chairman, Airports Authority of India does not bind itself to accept the lowest or any other bid and reserves the right to reject any or all the bids received without assigning any reason. All bids in which any of the

prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

- 6.2. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 6.3. The competent authority on behalf of Chairman, Airports Authority of India reserves the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rates quoted. AAI also reserves the right to call off the tender process at any stage without assigning any reason.
- 6.4. AAI reserves the right to disallow issue of tender documents to working agencies whose performances at ongoing project(s) is below par and usually poor and has been issued letter or restrain/temporary/permanent debar by any department of AAI.
- 6.5. AAI reserves the right to verify the credentials submitted by the agency at any stage (before or after the award of work). If any stage, any information/documents submitted by the applicant is found to be incorrect/false or have some discrepancy which disqualifies the firm then AAI shall take the following action:
- a) Forfeit the entire amount of EMD submitted by the firm.
 - b) The agency shall be liable for debarment from tendering in AAI, apart from any other appropriate contractual/ legal action.
- 6.6. If EMD and Acceptance Letter Undertaking of any bidders are not meeting the AAI's tender conditions then their bid will be summarily rejected.
- 6.7. Non-submission of any of the aforesaid documents or submission of any of the aforesaid documents in a manner which is in non-conformance with the relevant clause of the tender document shall result in rejection of tender.
- 6.8. At any stage of evaluation of tender, by AAI, if it is found that the firms in competition has formed a cartel or consortium to mislead AAI, then such bids shall be summarily rejected without assigning any reasons to bidder(s). Such firms shall be dealt by AAI according to other provisions of the tender.
- 6.9. Consortium/JV Companies shall not be permitted. No single firm shall be permitted to submit two separate applications.
- 6.10. Tenders, in which any of the particulars and prescribed information is vague, missing or is incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and are liable to be rejected.

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- 6.11. If the bidder gives wrong information in his tender, AAI reserves the right to reject such tender at any stage or to cancel the Contract, if awarded, and forfeit the Earnest Money Deposit.
- 6.12. The information contained in the tender shall be comprehensive and to the point. Any tender containing information other than sought, with a motive to confuse or delay the finalization process is likely to be rejected.
- 6.13. Should a bidder have a relation or relations employed in the capacity of an officer of AAI, the authority inviting tender shall be informed of the fact along with the offer, failing which AAI, at its sole discretion shall reject the tender or cancel the contract and forfeit the Earnest Money Deposit.
- 6.14. Not more than one tender shall be submitted by one contactor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.
- 6.15. Tenderer who has downloaded the tender from Central Public Procurement Portal (CPPP) website <http://etenders.gov.in/eprocure/app>, shall not tamper/modify the tender form, proforma, including downloaded price bid template in any manner. In case any bid submittal is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer shall be liable to be debarred from doing business with AAI.

7. Benefits to Micro & Small Enterprises (MSEs)

7.1. Exemption from paying Tender Fee & Earnest Money Deposit

Micro and small enterprises (MSEs) – registered with district industries centers or khadi and village industries commission or khadi and village industries board or coir board or national small industries corporation or directorate of handicraft and handloom or any other body specified by the ministry of micro, small and medium enterprises as MSMED Act, 2006 for goods produced and services rendered – shall be issued tender documents free of cost and shall be exempted from paying Earnest Money Deposit (EMD).

- 7.2. NSIC/MSME registered firms seeking exemption from Tender Fee & EMD have to submit the copy of valid NSIC/MSME registration certificate issued by the Competent Authority. In case of invalid/non-receipt of registration certificate, such Tender shall be summarily rejected.

Note:

- a) The benefit as above to MSEs shall be available only for goods/services produced and provided by MSEs for which they are registered.
- b) MSEs seeking exemption and benefits shall enclose an attested/self-certified copy of valid registration certificate, giving details of such validity, stores/services etc. in Envelope-I, failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.

8. Assistance to bidders

- 8.1. Any queries relating to the tender document, and the terms and conditions contained therein, should be addressed to the Tender Inviting Authority/Contact person indicated in the tender.
- 8.2. 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. (Refer to “Contact Us” Tab on CPP Portal.

Note: Bidders may mention the URL of the Portal and Tender ID in the subject, while emailing any issue, along with Bidder Contact details.

SD/-

Jt. GM (Airport Systems), AAI, Chennai Airport
(For and on behalf of Chairman, AAI)

Section A.1 - General Rules & Directions

1.	General Rules & Directions
1.1.	All work proposed for execution by contract are notified in a form of invitation to tender pasted in public places/CPP Portal and signed by the officer inviting tender or by publication in Newspapers and posted on AAI web-site, CPP Portal http://etenders.gov.in , and www.aai.aero (for reference only).
1.2.	This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.
2.	In the event of the e-tender being submitted by a firm, it must be digitally signed. Such tender will be treated as signed tender.
3.	Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm. Bank details shall be furnished by the firm through an application duly signed by all partners for payment to the firm through bank transfer.
4.	Applicable for item Rate Tender only.
4.1.	Any person who submits a tender shall fill up the tender form, stating at what rate he is willing to undertake each item of the work. Tenderers, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected.
5.	The officer inviting tender or his duly authorized representative, will open tenders in the presence of any intending bidders who may be present at the time, and will generate online comparative statement from CPP Portal. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents.

	In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.
6.	The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
7.	Applicable for Item Rate Tender Only.
7.1.	In the case of Item Rate Tenders, only rates quoted shall be considered.
7.2.	In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the bidder has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
7.3.	In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
7.4.	All rates shall be quoted on the tender form.
8.	Acceptance of abnormally low quoted bid (Capital & Revenue Expenditure Contract): Not Applicable
9.	The bidder, whose tender is accepted, will be required to furnish performance guarantee as per Tender Clause 2 at Page 23-25.
10.	On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
11.	
11.1.	All Tendered rates should be inclusive of all taxes including GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/Duty Scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice.
11.2.	The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works.
11.3.	In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System, Security, IT, Furniture, etc. should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items.
11.4.	In case of change in rate of Tax or any provision relating to levy of Tax resulting in increase in burden of Tax on the contractor, the contractor shall be entitled to receive any compensation for such increase in quantum of Tax payable by the

	contractor. Similarly recovery shall be made from the contractor on account of decrease of rate of Tax or any provision relating to levy of Tax.
12.	The contractor/bidder shall give a list of AAI employees related to him.
13.	The tender for the work shall not be witnessed by a contractor or contractors/bidders who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
14.	The contractor/bidder shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Executive Director (CNS) may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.
15.	If complete site is available for work, the work shall be completed in the manner specified here in special condition of contract and NIT specifications.

Section A.2 - CONDITIONS OF CONTRACT

	Definitions:
1.	The contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the Chairman, Airports Authority of India and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complimentary to one another.
2.	In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:
2.1.	The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
2.2.	The site shall mean the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
2.3.	The Contractor/tenderer/bidder shall mean the individual, firm or company whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons constituting such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
2.4.	The Chairman means the Chairman, Airports Authority of India and his successors.
2.5.	The Engineer-in-Charge means the AAI Officer who shall supervise and be in-charge of the work and who shall sign the contract on behalf of the Chairman, Airports Authority of India.
2.6.	AAI or Airports Authority of India shall mean the Chairman, Airports Authority of India.
2.7.	The terms Member (ANS) means the head of Department of Air Navigation Systems, Airports Authority of India.
2.8.	Accepting Authority shall mean the Airport Director, Chennai Airport.
2.9.	Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, terrorism, military or usurped power, any acts of Airports Authority of India, damages from aircraft, acts of God,

	such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Airports Authority of India of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Airports Authority of India's faulty design of works.
2.10.	Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the prevailing cost of materials and labour at the site where the work is to be executed plus a percentage to cover, all overheads and profits, provided that no extra overheads and profits shall be payable on the parts of works assigned to other agency(s) by the contractor as per terms of contract.
2.11.	Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers, with the amendments thereto issued up to the date of receipt of the tender.
2.12.	Department means Airports Authority of India, which invites tender on behalf of Chairman, Airports Authority of India.
2.13.	Tendered value means the value of the entire work as stipulated in the letter of award.
3.	Scope and Performance
	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
4.	Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
5.	The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.
6.	Works to be carried out
	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

7.	Sufficiency of Tender
	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
8.	Discrepancies and Adjustment of Errors
	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
8.1.	In the case of discrepancy between the Schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed:
	i. Description of Schedule of Quantities.
	ii. Particular/Technical Specification and Special Condition, if any.
	iii. Drawings.
	iv. CPWD Specifications.
	v. Indian Standard Specifications of BIS/IRC Code of Practice/ASTM standards.
	vi. Sound Engineering practice as directed by the Engineer-in-Charge, whose decision in this regard shall final and binding on the contractor.
8.2.	If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
8.3.	Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
8.4.	Payment for similar items with different quoted rates in different subheads of the contract agreement:
9.	Reverse Auction for purchase tenders
	AAI may opt for reverse auction in case of purchase tender if value of supplies put to tender is more than INR 2 Cr.
10.	Signing of Contract
	The successful tenderer, on acceptance of his tender by the Accepting Authority, shall, within FIFTEEN days from the date of issue of Work-Order, sign the contract consisting of:

	i. The notice inviting tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
	ii. Standard AAI Form consisting of:
	a. Various standard clauses with corrections up to the date along with annexures thereto.
	b. AAI Safety Code.
	c. Model Rules for the protection of health, sanitary arrangements for workers employed by AAI or its contractors.
	d. AAI Contractor's Labour Regulations.
	e. List of Acts and omissions for which fines can be imposed.
	iii. No payment for the work done will be made unless contract in form of agreement is signed by the contractor.

Section A.3 - CLAUSES OF CONTRACT

1.	Time allowed for work/Supply & installation schedule
1.1.	Total time allowed to complete the work shall be Twenty (20) Days from the date of issue of work order.
1.2.	For Supply: Supply of complete equipment with accessories at Airport site to be completed within 10 Days from the date of issue of the work-order.
1.3.	For Installation: Installation, Testing and Commissioning shall be completed within 10 days from the date of award of work.
2.	Performance Guarantee:
2.1.	The contractor shall submit irrevocable Performance Guarantee, in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract). i) PBG: 10% (Ten percent) of the Capital Cost mentioned in the AAI Work-Order within 30 days from the date of issue of award letter This guarantee shall be in the form of Guarantee Bonds of any Scheduled bank but not Co-operative or Gramin bank, in accordance with the form annexed hereto.
2.2.	In case the contractor fails to deposit Performance Guarantee within the stipulated period, no payment will be released to the contractor. Moreover, interest @10% per annum on performance guarantee amount would be levied (non-refundable) for delayed period of submission.
2.3.	Performance Guarantee shall be initially valid up to the stipulated date of completion, including Warranty Period, plus 180 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work, as per provisional extension of time granted by AAI. If the contractor fails to extend the validity of the Performance Guarantee, it shall be encashed by AAI and shall be returned only as per other provision of contract at discretion of AAI.
2.4.	Contractor shall not change the language contents of PBG language; in case PBG is found not conforming to the language then AAI may ask the contractor to resubmit the same within the stipulated period or else AAI may at its discretion foreclose or rescind or cancel the purchase order without giving reasons and forfeit the EMD/PBG.
2.5.	The performance guarantee shall be deemed to govern the following guarantees from the successful bidder, in addition to the other provisions of the guarantee.

Signature of Bidder:

2.5.1.	The successful and satisfactory operation of the equipment supplied in accordance with the specifications and other relevant documents.
2.5.2.	The equipment supplied shall be free from all defects of design, material and workmanship and upon written notice from AAI, the successful bidder shall fully remedy, free of expenses to AAI, all such defects as developed under the normal use of the said equipment within the period of guarantee/warranty
2.5.3.	The performance guarantee is intended to secure the performance of the entire equipment. However, it is not to be construed as limiting the damages stipulated in any other clause.
2.6.	The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the AAI is entitled under the contract (notwithstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
	a. Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
	b. Failure by the contractor to pay the Chairman, AAI any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within THIRTY days of the service of notice to this effect by Engineer-in-Charge.
2.7.	In the event of the contract being determined or rescinded due to contractor defaulting any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Chairman, AAI.
3.	Compensation for Delay
	If the contractor fails to maintain the required progress in terms of clause 5 or to complete the Work and clear the site on or before the contract or justified extended date of completion as per clause 5 (excluding any extension under clause 5.5) as well as any extension granted under clause 12 and 15, he shall, without prejudice to any other right or remedy available under the law to the AAI on account of such breach, pay as compensation the amount calculated at the rates stipulated below as AAI may decide on the amount of Awarded Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete. This will also apply to items or group of items for which a separate period of completion has been specified.
3.1.	Compensation for delay of work (Liquidated Damages)
	If the completion of work is delayed due to reasons attributed to contractor, AAI shall be entitled for compensation for delay ONE PERCENT of the total value of

	the uncompleted portion of the work per week (part of week to be treated as one week) subject to a maximum of TEN PERCENT of the total contract value.
	AAI, if satisfied that the works can be completed by the bidder within a reasonable time after the specified time for completion, may allow further extension of time at its discretion with or without the levy of liquidated damages. In the event of extension granted with levy of L.D., AAI shall be entitled without prejudice to any other right or remedy available in that behalf, to recover from the bidder an agreed compensation amount calculated @ONE PERCENT of the total value of the uncompleted portion of work per week or part thereof subject to a maximum of TEN PERCENT of the total contract value.
3.2.	Release of withheld amount against compensation for delay.
	Withheld amount towards compensation for delay over and above INR 50.00 Lacs, can be released against Bank Guarantee (As per format to be provided by AAI), pending finalization of case of extension of time by competent authority as per delegation of powers. Concerned Executive Director (CNS) will authorize such action on receipt of proposal from the Engineer-in-Charge through proper channel.
3.3.	Force Majeure
3.3.1.	AAI may grant an extension of time limit set for the completion of the work, in case the timely completion of the work is delayed by force majeure beyond the AAI/bidder firm's control, subject to the following terms:
3.3.2.	Force majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms, etc.), acts of states, the direct and indirect consequences of wars, hostilities, national emergencies, civil commotions and strikes (only those which exceed a duration of ten continuous days) at bidder firm manufacturing premises, etc.
3.3.3.	The bidder firm's right to an extension of the time limit for completion of the work in above mentioned cases is subject to the following procedures:
	That within TEN days after the occurrence of a case of force majeure but before the expiry of the stipulated date of completion of the milestone, the bidder informs the AAI in writing that the bidder considers himself entitled to an extension of the time limit.
	That the bidder produces evidence of the date of occurrence and the duration of the force majeure in an adequate manner by means of documents drawn up by responsible authorities.
	That the bidder proves that the said conditions have actually been interfered with the carrying out of the Contract.
	That the bidder proves that the delay occurred is not due to his own action or lack of action.

3.3.4.	Apart from the extension of the time limit, force majeure does not entitle the bidder for any relaxation or to any compensation of damage or loss suffered.
4.	When Contract can be Determined
	Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:
4.1.	If the contractor having been given a notice by the Engineer-in-Charge in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
4.2.	If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
4.3.	If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date on or before such date of completion, and the Engineer-in-Charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge, the contractor will be unable to complete the same or does not complete the same within the period specified.
4.4.	If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within SEVEN days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
4.5.	If the contractor shall offer or give or agree to give to any person in AAI service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for AAI.
4.6.	If the contractor shall enter into a contract with AAI in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless

	the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
4.7.	If the contractor shall obtain a contract with AAI as a result of wrong tendering or other non-bona-fide methods of competitive tendering or commits any breach of Integrity Pact.
4.8.	If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
4.9.	If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
4.10.	If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge. When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the Chairman, AAI shall have powers:
4.10.1.	To determine the contract as aforesaid so far as performance of work by the Contractor of work by the Contractor is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the AAI.
4.10.2.	After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor or any other means to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no

	claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.
4 A	In case, the work cannot be started due to reasons not within the control of the contractor within 1/8 th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Earnest Money Deposit and the Performance Guarantee of the contractor shall be refunded within THIRTY days. Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party.
5.	Contractor liable to pay compensation even if action not taken under Clause-4
5.1.	In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-4 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorised agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the

	expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.
6.	Time and Extension for Delay
	<p>The time allowed for execution of the Works or the extended time in accordance with the contract conditions, shall be the essence of the Contract.</p> <p>If the Contractor commits default in commencing the execution of the work as aforesaid, AAI shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the Earnest Money & Performance Guarantee absolutely.</p>
6.1.	After the Contract is awarded, within THREE days, the Contractor shall submit a Time and Progress Chart for each mile-stone and get it approved by the Engineer-in-Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the contract documents, and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile-stones.
6.2.	Project Management shall be done.
	a. For works costing up to Rs. 5.00 Cr. -- CPM/PERT Chart
	b. Works costing more than Rs. 5.00 Cr. -- By using Project Management Software like Primavera/MS Project or any other software with the approval of Engineer-in-Charge.
	c. Contractor shall submit monthly progress reports (2 copies) highlighting status of various activities and physical completion of work.
6.3.	PROGRAMME CHART
	<p>i. The Contractor shall prepare an integrated programme chart in Project Management Software for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfilment of the programme within the stipulated period or earlier and submit the same for approval to the Engineer-in-Charge within three days of award of the contract. A recovery of Rs. 2500/- (for works costing up to Rs. 5.00 Crores)/Rs. 5000/- (for works costing more than Rs. 5.00 Crores) shall be made on per day basis in case of delay in submission of the above programme.</p> <p>ii. The programme chart should include the following:</p> <p>a. Descriptive note explaining sequence of the various activities.</p> <p>b. Network (PERT/CPM/BAR CHART).</p>

	<p>c. Programme for procurement of materials by the contractor.</p> <p>Programme for deployment of machinery/equipment's having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor. In addition to above, to achieve the progress of work as per programme, the contractor must bring at site adequate shuttering material required for cement concrete and R.C.C. works etc. for three floors within one month from the date of start of work till the completion of RCC work as per requirement of work. The contractor shall submit shuttering schedule adequate to complete structure work within laid down physical milestone.</p>
	<p>iii. If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved programme referred above or after rescheduling of milestones, the contractor shall produce a revised programme within 7 (seven) days, showing the modifications to the approved programme to ensure timely completion of the work. The modified schedule of programme shall be approved by the Engineer-in-Charge. A recovery of Rs. 2500/- (for works costing up to Rs.5.00 Crores)/Rs. 5000/- (for works costing more than Rs.5.00 Crores) shall be made on per day basis in case of delay in submission of the modified programme.</p>
	<p>iv. The submission for approval by the Engineer-in-Charge of such programme or such particulars shall not relieve the contractor of any of the duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.</p>
	<p>v. The contractor shall submit the progress report using MS Project/Primavera software with base line programme referred above for the work done during previous month to the Engineer-in-Charge on or before 5th day of each month failing which a recovery Rs. 2500/- (for works costing up to Rs.5.00 Crores)/Rs. 5000/- (for works costing more than Rs.5.00 Crores) shall be made on per day basis in case of delay in submission of the monthly progress report.</p>
6.4.	<p>If the work(s) be delayed by:-</p> <ul style="list-style-type: none"> i. Force majeure, or an act of terrorism ii. Abnormally bad weather, or iii. Serious loss or damage by fire, or iv. Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or v. Delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge for executing work not forming part of the Contract, or vi. Non-availability or break down of tools and Plant to be supplied or supplied by AAI or

	<p>vii. Any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.</p> <p>then upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. The contractor shall also sign the hindrance register at appropriate place for each hindrance.</p>
6.5.	Request for rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the Engineer-in-Charge. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.
6.6.	In any such case the Engineer-in-Charge with the approval of authority may give a fair and reasonable extension of time and reschedule the Milestones for completion of work. Such extension or re-scheduling of the milestone shall be communicated to the contractor by the Engineer-in-Charge in writing, within 1 month or 4 weeks of the date of receipt of such request respectively. Non-application by the contractor for extension of time/re-scheduling of milestones shall not be a bar for giving a fair and reasonable extension/re-scheduling of milestones by the Engineer-in-Charge with the approval of authority and this shall be binding on the contractor.
7.	Measurements of Work Done
7.1.	Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done.
7.2.	All measurement of all items having financial value shall be entered in Measurement Book, so that a complete record is obtained of all works performed under the contract.
7.3.	All measurements shall be taken jointly by the Engineer-in-Charge or his authorised representative and by the contractor or his authorised representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.
7.4.	If for any reason the contractor or his authorised representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain

	any claim from contractor for any loss or damages on this account. If the contractor or his authorised representative does not remain present at the time of such measurements after the contractor or his authorised representative has been given a notice in writing THREE days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.
7.5.	The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.
7.6.	Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.
7.7.	The contractor shall give, not less than seven days' notice to the Engineer-in-Charge or his authorised representative in-charge of the work, before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorised representative in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.
7.8.	Engineer-in-Charge or his authorised representative may cause either themselves or through another officer of the department to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.
7.9.	It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or final bill shall not be considered as conclusive evidence as to the sufficiency of any work or

	material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.
8.	Payment on Intermediate Certificate to be regarded as Advances
8.1.	<p>No payment shall be made for work, estimated to cost Rs. One lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. One lac, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/adjustment of advances for material collected, if any, since the last such payment is less than INR One Lac, in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Asst. Manager/Manager together with the account of the material issued by the department, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer-in-Charge, the period of ten working days will be extended to fifteen working days.</p>
8.2.	<p>All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Chargerelating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.</p>

8.3.	Pending consideration or extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.
8.4.	The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asst. Manager/Manager to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill by taking detailed measurements thereof.
9.	Completion Certificate and Completion Plans
9.1.	Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete for 'Civil Construction Works' until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangement as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.
9.2.	a) For electrical and mechanical capital works: The contractor shall remove the rubbish from the site. Following conditions must be met before recording

	<p>completion certificate: Submits completion plan, maintenance manual, manufactures catalogue and gives performance test for system.</p> <p>b) For repair works: The performance of the repaired system has been tested and found satisfactory.</p> <p>c) For AMC work: The system has been tested for its performance/completeness and taken over by AAI/next agency for operation and maintenance.</p>
9.3.	Contractor to keep site clean
	<p>When the repairs and maintenance works are carried out, any resultant dust/ rubbish on walls, floor, windows etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work.</p> <p>Where the work is done without waiting for the actual completion of all the other items of work in the contract, in case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer-in-Charge shall give ten days' notice in writing, to the contractor.</p>
9.4.	Completion Plans to be Submitted by the Contractor
	The contractor shall submit completion plan as required vide General Specifications for Electrical works (Part-I Internal) 2005 and (Part -II External) 1994 or latest available specifications, as applicable within thirty days of the completion of the work.
	<p>The contractor shall also submit catalogues of all equipment's and maintenance manual for the complete E&M systems. If contractor fails to submit completion plans of all works, he shall be liable to pay compensation @ 0.5% of the tendered value of works costing up to Rs. 5 Crores subject to maximum of Rs. 1.00 Lac and 0.25% for works costing more than Rs. 5 crores subject to maximum of Rs. 1.5.Lac. The decision of Project-in-charge in this regard shall be final and binding on the contractor.</p>
10.	Payment of final bill
10.1.	<p>The corrected final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the</p>

	Engineer-in-Charge or his authorised Asst. Manager/Manager, complete with account of materials issued by the Department and dismantled materials.
10.2.	Payment of contractor's bills to Banks
	Payments due to the contractor and refund of various nature may, wherever possible, be made through electronic payment mechanism instead of direct to him, provided that the contractor furnishes to the Engineer-in-Charge.
	<ul style="list-style-type: none"> i. Information as per proforma. ii. An authorisation in the form of a legally valid document such as power of attorney conferring authority on the bank to receive payments and iii. His own acceptance of the correctness of the amount made out as being due to him by Authority or his signature on the bill or other claim preferred against Authority before settlement by the Engineer-in-Charge of the account or claim by payment to the bank. While the receipt given by such banks shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank.
	Nothing herein contained shall operate to create in favour of the bank any rights or equities vis-à-vis the Airports Authority of India.
11.	Materials supplied by Authority
11.A	Materials to be provided by the contractor and Mandatory Tests
	1. The contractor shall, at his own expense, provide all materials, required for the works.
	2. The contractor shall, at his own expense and without delay; supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Engineer-in-Charge shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer-in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.
	3. The contractor shall at his risk and cost submit the samples of materials to be tested or analysed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge.

	4. If any additional tests apart from mandatory tests specified in the contract are required to be carried out at the instance of AAI or any other advisory body, to ensure conformity of the item to the contract specifications, the cost of such tests shall be borne by AAI. In case the material/equipment fails in the above tests, the expenditure incurred by AAI on testing of such material or equipment along with incidental charges borne by AAI (if any) shall be recovered from the dues of the contractor and action shall be taken under Clause 16 and other relevant clauses of the contract.
	5. The contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.
	6. The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in-Charge or his authorised representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.
	7. The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may be attracted for such removal and substitution shall be borne by the Contractor.
11.B	Secured Advance on Non-perishable materials: Not applicable
11.C	Payment on Account of Increase in Prices/Wages due to Statutory Order(s): Not applicable
11.CA	Payment due to variation in prices of materials after receipt of tender: Not applicable
11.CC	Payment due to Increase/Decrease in Prices/Wages (excluding material covered under clause 10CA) after Receipt of Tender for works: Not applicable
11.D	Dismantled Material AAI Property

	The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc. as property of AAI, and such materials shall be disposed-off to the best advantage of Authority according to the instructions in writing issued by the Engineer-in-Charge.
12.	Work to be executed in accordance with specifications, drawings, orders etc.
	The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The contractor shall take full responsibility for adequacy suitability and safety of all the works and methods of construction.
13.	Deviations/variations extent and pricing
13.1.	<p>The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value being ordered, be extended, if requested by the contractor, as follows:</p> <ul style="list-style-type: none"> ▪ In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus ▪ 25% of the time calculated above or such further additional time as may be considered reasonable by the Engineer-in-Charge. • In case of extra/deviation/substitute items, which are required to be imported from out of country, the contractor shall be given additional time of four weeks to deliver items at site.
13.2.	Deviation, Extra Items and Pricing
	In the case of extra item(s) (items that are completely new, and in addition to the items contained in the contract) the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Engineer-in-Charge shall within Six weeks of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
	Deviation, substituted items pricing
	In the case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.

	(i) If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
	(ii) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
	Deviation, Deviated Quantities, Pricing
	In the case of contract items, substituted items, contract cum substituted items, which exceed the limits, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.
13.3.	The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in contract, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.
13.4.	The contractor shall send to the Engineer-in-Charge once every three months, an up to date account giving complete details of all claims for additional payments to which the contractor may consider himself entitled and of all additional work ordered by the Engineer-in-Charge, which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the Executive Director (CNS) may authorise consideration of such claims on merits.
13.5.	Any operation incidental to or necessarily has to be in contemplation of tenderer while filing, tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given

	in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.
14.	Foreclosure of contract due to Abandonment or Reduction in Scope of Work
	If at any time after acceptance of the tender or during the progress of work the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works. The contractor shall be paid at contract rates, full amount for works executed at site and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure;
	i. Any expenditure incurred on preliminary site work, e.g. storage accommodation, etc.
	ii. AAI shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however AAI shall be bound to take over the materials or such portions thereof as the contractor does not desire to retain. For materials taken over or to be taken over by AAI, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.
	iii. If any materials supplied by AAI are rendered surplus, the same except normal wastage shall be returned by the contractor to AAI at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to AAI stores, if so required by AAI, shall be paid.
	iv. Reasonable compensation for transfer of T&P from site to contractor's permanent stores or to his other works, whichever is less. If T&P are not transported to either of the said places, no cost of transportation shall be payable.
	v. Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

	The contractor shall, if required by the Engineer-in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.
	The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the AAI as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the AAI from the contractor under the terms of the contract.
	In the event of action being taken under clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up to the extended date the completion or stipulated date of completion if no extension has been granted plus 180 days beyond that. Wherever, such a fresh Performance Guarantee is furnished by the contractor, the Engineer-in-Charge may return the previous Performance Guarantee.
15.	Carrying out part Work at risk & cost of contractor:
	a. If contractor:
	i. At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or
	ii. Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or
	iii. Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge.
	b. The Engineer-in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to AAI, by a notice in writing to take the part work/part incomplete work of any item(s) out of his hands and shall have powers to:
	i. Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or

	ii. Carry out the part work/part incomplete work of any item(s) by any means at the risk and cost of the contractor.
	c. The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/part incomplete work of any item(s) taken out of his hands and executed at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by AAI because of action under this clause shall not exceed 10% of the tendered value of the work.
	d. In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the department are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.
	e. Any excess expenditure incurred or to be incurred by AAI in completing the part work/part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by AAI as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to AAI in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within THIRTY days.
	f. If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract/provisions of law.
	In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.
16.	Suspension of Work
	i. The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress

	of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:
	a. on account of any default on the part of the contractor or;
	b. for proper execution of the works or part thereof for reasons other than the default of the contractor; or
	c. for safety of the works or part thereof.
	The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.
	ii. If the suspension is ordered for reasons (b) and (c) in sub-para (i) above (but not attributed to contractor):
	a. the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25% for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;
	b. If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds THIRTY days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in-Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within FIFTEEN days of the expiry of the period of THIRTY days.
	c. If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reasons (a) in sub-para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in-Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by AAI or where it affects whole of the works, as an abandonment of the works by AAI, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by AAI, he shall have no claim to payment of any compensations on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not

	derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within THIRTY days of the expiry of the period of THREE months.
16.A	Compensation in case of delay due to late supply of stipulated material by AAI.
	The contractor shall not be entitled to claim any compensation from AAI for the losses suffered by him on account of delay by AAI in the supply of materials where such delay is covered by the difficulties relating to supply of wagons, force majeure or any reasonable cause beyond the control of AAI.
	This clause 16 A will not be applicable for works where no material is stipulated for issue by AAI.
17.	Action in case Work not done as per Specifications
	All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-Charge, his authorize subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the AAI or any organization engaged by the Department of Quality Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.
	If it shall appear to the Engineer-in -charge or his authorized subordinates in charge of the work or to the Executive Director-In-charge of quality assurance or his subordinate officers or the officers of the organization engaged by the AAI for quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskilful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs.10 lac and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may

	<p>require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under Clause 3 of the contract (for non-completion of the work in time) for this default.</p>
	<p>In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority may considered reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.</p>
18.	Contractor Liable for Damages, Defects during maintenance period
	<p>If the contractor or his working people or servants shall break, deface, injure or destroy any part of equipment/accessories/civil or electrical structure/equipment in the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any other faults appear in the work within SIX months after a certificate final or otherwise of its completion have been given by the Engineer-in-Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his Performance Guarantee or the proceeds of sale thereof or of a sufficient portion thereof. The Performance Guarantee of the contractor shall not be refunded before the expiry of SIX months after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later, subject to successful handing over of the system to AAI.</p>
19.	Contractor to Supply Tools & Plants etc.
	<p>The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores) machinery, tools & plants. in addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other</p>

	documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefor to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his PBG or the proceeds of sale thereof, or of a sufficient portions thereof.
18.A	Recovery of Compensation paid to Workmen
	In every case in which by virtue of the provisions sub-section(i) of Section 12, of the Workmen's Compensation Act, 1923, AAI is obliged to pay compensation to a workman employed by the contractor, in execution of the works, AAI will recover from the contractor, the amount of the compensation so paid, and, without prejudice to the rights of the AAI under sub-section(2) of Section 12, of the said act, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the contractor whether under this contract or otherwise. AAI shall not be bound to contest any claim made against it under subsection(1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to AAI full security for all costs for which AAI might become liable in consequence of contesting such claim.
18.B	Ensuring Payment and Amenities to Workers if Contractor fails
	In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) act 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, AAI is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the AAI Contractor's Labour Regulations or under the Rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by AAI Contractors, AAI will recover from the contractor the amount of wages so paid or the amount of expenditure so incurred and without prejudice to the rights of the AAI under sub section (2) of Section 20, sub section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, AAI shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by AAI to the contractor whether under this contract or otherwise AAI shall not be bound to

	contest any claim made against it under sub section (1) of Section 20, sub section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the AAI full security for all costs for which AAI might become liable in contesting such claim.
20.	Labour laws to be complied by the Contractor
	The contractor shall obtain a valid license under the contract labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.
	The contractor shall also comply with the provisions of the building and other construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.
	Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.
20.A	No labour below the age of fourteen years shall be employed on the work.
20.B	Payment of wages
	i The contractor shall pay to labour employed by him either directly or through sub-contractors, wages not less than fair wages as defined in the AAI Contractor's Labour Regulation or as per the provisions of the Contract Labour (Regulation and Abolition) act, 1970 and the contract labour (Regulation and Abolition) Central Rules, 1971 wherever applicable.
	ii The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.
	iii In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Airports Authority of India contractor's Labour Regulations made by AAI from time to time in regard to payment of wages wage period, deductions from wages recovery of wages not paid and deductions unauthorisedly made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
	iv. The following deductions shall be permissible to be made by the Engineer-in-Charge.

	a. The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor or any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.
	b. Under the provision of Minimum Wages (Central) Rule 1950 the contractor is bound to allow to the labours directly or indirectly employed in the works one day rest for SIX days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to pay labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.
	In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162)MWO/DAB/43884-91, dated 31.12.1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.
	v. The contractor shall comply with the provisions of the Payment of wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rule made thereunder from time to time.
	vi. The contractor shall indemnify and keep indemnified Authority against payments to be made under and for the observance of the laws aforesaid and the AAI Contractor's Labour Regulations with prejudice to his right to claim indemnity from his sub-contractors.
	vii. The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.
	viii. Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.
	ix. The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.
20.C	In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own

	expense arrange for the safety provisions as per AAI Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs. 500/- for each default and in addition, the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.
20.D	The contractor shall submit by the 4 th and 19 th of every month, to the Engineer-in-Charge a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:
	i. the number of labourers employed by him on the work,
	ii. their working hours,
	iii. the wages paid to him,
	iv. the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and
20.E	In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by AAI from time to time for the protection of health and sanitary arrangements for workers employed by the AAI and its contractor.
	In the event of the contractor(s) committing a default or breach of any of the provisions of the Airports Authority of India Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filling any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the AAI a sum not exceeding Rs. 200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs. 200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.
20.F	Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provision of the AAI Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R&A) Central Rules 1971, for the protection of health and sanitary arrangements for work – people employed the contractor(s) (hereinafter referred as "the said Rules") the Engineer-

	<p>in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work –people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).</p>
20.G	Not applicable
20.H	<p>The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual work premises, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour.</p>
20.I	<p>It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy up to 5% of tendered value of work may be imposed by the General Manager (Airport Systems), whose decision shall be final both with regard to the justification and quantum and be binding on the contractor. However, the Executive Director (CNS), through a notice may require the contractor to remove the illegal occupation any time on or before construction and delivery.</p>

20.J	Employment of skilled/semiskilled workers
	The contractor shall at all stages of work deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute/Industrial Training Institute/National Institution of Construction Management and research (NICMAR) National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer-in-Charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate of Rs.100 per such tradesman per day. Decision of Engineer-in-Charge as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding.
	Provided always, that the provision of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs.5 crores.
20.K	Registration with EPFO and ESIC
	The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-Charge to the contractor on actual basis.
20.L	Compliance of NGT guidelines
	The contractor is required to follow latest National Green Tribunal guidelines at the work site and any violation of such guidelines will be in his account.
21.	Minimum Wages Act to be Complied with
	The contractor shall comply with all the provision of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970 amended from time to time and rules framed thereunder and other labour laws affecting contract labour that may be brought into force from time to time.
21(A)	Employees Provident Fund & Miscellaneous Provident Act 1952/Jammu & Kashmir Employees Provident Funds (and Miscellaneous Provisions) Act, 1961 and State Insurance (ESI) Act, 1948.
	The Contractor shall comply with all the provisions of the Employees Provident Fund & Misc. Provisions Act, 1952/Jammu & Kashmir Employees Provident Funds

	(and Miscellaneous Provisions) Act, 1961 and ESI Act, 1948, amended from time to time and rules framed thereunder. Some of the provisions are given below:
	a. The contractor shall intimate his PF Account Code No. allotted by Regional PF Commissioner and ESI Registration No. allotted by ESI Corporation after award of work and shall continue to have valid PF Account Code No. and ESI Registration No. till actual completion of the contract.
	b. The contractor shall provide a list of contract Workers engaged for contract work along with their PF Account No. & ESI Registration No.
	c. The contractor by 20th of every month shall provide a monthly statement showing recoveries of contribution and proof of remittance of provident fund contribution to RPFC and ESI contributions to ESI Corporation in respect of Workers engaged in contract work.
	d. The contractor shall provide copies of PF & ESI challans of monthly contributions in respect of contract workers engaged for contract work on month to month basis.
	AAI reserves the right to withhold minimum amount as detailed under, from the running account payments, if PF/ESI contributions are not paid by the contractor and proof to that effect have not been produced regularly on due dates. To withhold 3% for building work & 1.5% for road/pavement work of the total amount of work done during the period considered.
	ESI & EPF amount paid to the statutory authorities by the contractor shall be reimbursed on actual basis on submission of documentary evidence.
22.	Work not to be sublet.
	Action in case of insolvency
	The contract shall not be assigned or sublet without the written approval of Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of AAI in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineers in Charge on behalf of the AAI shall have power to adopt the course specified in Clause 4 hereof in the interest of AAI and in the event of such course being adopted, the consequences specified in the said Clause 4 shall ensue.
23.	All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of AAI without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

24.	Changes in firm's Constitution to be intimated
	Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of the tender conditions and the action may be taken and the consequences shall ensue as provided in the tender.
25.	All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.
26.	Dispute Resolution Mechanism and Arbitration
	Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instruction here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question , claim, right, matter or thing whatsoever, in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:
	i. If the contractor considers any work demanded of him to be outside the requirement of the contract, or disputes any drawing, record or decision given in writing by the Engineer-in-Charge or if the Engineer-in-Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed such party shall promptly within FIFTEEN days of the arising of the disputes request the Airport Director/Executive Director (CNS)/Member (ANS)/Chairman, AAI as the case may be, who shall refer the dispute to Dispute Redressal Committee (DRC) within Fifteen days along with a list of disputes with amounts claimed if any, in respect of each such disputes. The Dispute Redressal Committee (DRC) shall give the opposing party two weeks for written response, and give its decision within a period of Sixty days extendable by Thirty days by consent of both the parties from the receipt of reference from the Airport Director/Executive Director (CNS)/

	Member (ANS)/Chairman, AAI. Provided that no party shall be represented before the Dispute Redressal Committee by an advocate/legal counsel etc.
	If the Dispute Redressal Committee (DRC) fails to give its decision within aforesaid period or any party is dis-satisfied with the decision of Dispute Redressal Committee (DRC) or expiry of time limit given above, then either party may within a period of Thirty days from the receipt of the decision of Dispute Redressal Committee (DRC), give notice to the Airport Director/Executive Director (CNS)/ Member (ANS)/Chairman, AAI as the case may be for appointment of Arbitrator on prescribed proforma, under intimation to the other party.
	It is also a term of contract and each party invoking Arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking Arbitration.
	The Airport Director/Executive Director (CNS)/ Member (ANS)/Chairman, AAI shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within THIRTY days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer-in-Charge to Airport Director/Executive Director (CNS)/ Member (ANS)/Chairman, AAI for appointment of arbitrator, as the case may be, and two appointed arbitrators shall appoint the third arbitrator, who shall act as the presiding arbitrator. In the event of:
	a. A party fails to appoint the second arbitrator, or
	b. The two appointed arbitrators fail to appoint the Presiding Arbitrator, then Member (ANS)/Chairman, AAI shall appoint the second or Presiding Arbitrator as the case may be.
	ii Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having Sole Arbitrator where tendered amount is Rs. One Hundred Crore or less. Where tendered value is more than Rs. One Hundred Crore, Tribunal shall consist of three arbitrators as above. The requirements of the arbitration and the conciliation act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force shall be applicable.
	It is a term of this contract that the party invoking Arbitration shall give a list of disputes with amounts, claimed, if any, in respect of each such disputes along with the notice for appointment of Arbitrator and giving reference to the decision of the DRC.
	It is also term of this contract that any member of Arbitration Tribunal shall be a graduate engineer with experience in handling public works, engineering contracts at a level not lower than Chief Engineer. This shall be treated as mandatory qualification to be appointed as Arbitrator.

	Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.
	Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the Appointing Authority, the Arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each disputes and claim referred to him and in all cases where the total amount of the claims by any party exceed Rs. One Lakh, the Arbitrator shall give reasons for the award.
	It is also a term of the contract that if any fees are payable to the arbitrator, these shall be paid as per the Act. It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claims.
	The place of the arbitration shall be Chennai. In case there is no mention of place of arbitration, the Arbitral Tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.
	All questions, disputes or difference arising under and out of, in connection with the contract if concluded shall if required to be referred to any court of law, be referred to the courts in India at Chennai and the said court shall have jurisdiction and decide matters according to the laws of India.
27.	Contractor to indemnify AAI against Patent Rights
	The contractor shall fully indemnify and keep indemnified the Chairman AAI against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay and royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against AAI in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the AAI if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.
28.	Lump sum Provisions in Tender
	When the estimate on which a tender is made, includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items

	of work involved or the part of the work in question at the same rates as are payable under this contract for such items ,or if the part of work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of the clause.
29.	Action where no specifications are specified
	In the case of any class of work for which there is no such specifications as referred to in tender, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per the original equipment manufacturers' specifications.
	In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.
30.	With-holding and lien in respect of sums due from contractor
	i. Whenever any claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the AAI shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the AAI shall be entitled to withhold the security deposit if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the AAI shall be entitled to withhold and have lien to retain to the extent of such claimed amount or amounts referred to above from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in Charge of the AAI or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.
	It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or AAI will be kept withheld or retained as such by the Engineer-in-Charge or AAI till the claim arising out of or under the contract is determined by the arbitrator. (if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to

	above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the AAI shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.
	ii. AAI shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc. to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by contractor under the contract or any work claimed to have been done by the him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over payment and it shall be lawful for AAI to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by AAI to the contractor, without any interest thereon whatsoever.
	Provided that the AAI shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Executive Director/General Manager on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Executive Director/General Manager.
29.A	Lien in respect of claims in other Contracts
	i. Any sum of money due and payable to the contractor (including the security deposit refundable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the AAI or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or AAI or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the AAI or with such other person or persons.
	ii. It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the AAI will be kept withheld or retained as such by the Engineer-in-Charge or the AAI or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

31.	Employment of coal mining/controlled area labour not permissible – Not applicable
32.	Unfiltered water supply– Not applicable
33.	Alternate water arrangements– Not applicable
34.	Return of Surplus materials
	Notwithstanding anything contained to the contrary in this contract, where any materials for the execution of the contract are procured with the assistance of AAI either by issue from AAI stocks or purchase made under orders or permits or licenses issued by AAI, the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the AAI and return, if required by the Engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such prices as the Engineer-in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount charged to him excluding the element of storage charges. The decision of the Engineer-in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to action for contravention of the terms of the license or permit and/or for criminal breach of trust, be liable to AAI for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.
35.	Hire of plant & Machinery
	i. The Contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work. If the contractor requires any item of T&P on hire from the T&P available with the AAI over and above the T&P stipulated for issue, the AAI will, if such item is available, hire it to the contractor at rates to be agreed upon between him and the Engineer-in-Charge. In such a case, all the conditions hereunder for issue of T&P shall also be applicable to such T&P as is agreed to be issued.
	ii. Plant & Machinery when supplied on hire charges shall be made over and taken back at the departmental equipment yard/shed and the contractor shall bear the cost of carriage from the place of issue to the site of work and back. The contractor shall be responsible to return the plant and machinery with condition in which it was handed over to him, and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation and otherwise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-in-Charge shall be the sole judge to determine the liability of the

	contractor and its extent in this regard and his decision shall be final and binding on the contractor.
	iii. The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The contractor shall arrange his programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the department.
	iv. The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over upto and inclusive of the date of the return in good order even though the same may not have been working for any cause except major breakdown due to no fault of the contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The contractor shall immediately intimate in writing to the Engineer-in-Charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer-in-Charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this if the breakdown before lunch period or major breakdown will be computed considering half a day's breakdown on the day of complaint. If the breakdown occurs in the post lunch period of major breakdown will be computed starting from the next working day. In case of any dispute under this clause, the decision of the Executive Director (CNS) /General Manager (Airport Systems) shall be final and binding on the contractor.
	v. The hire charges shown above are for each day of 8 hours (inclusive of the one hour lunch break) or part thereof.
	vi. Hire charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, firewood, kerosene oil etc. for running the plant and machinery and also the full time chowkidar for guarding the plant and machinery against any loss or damage shall be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machinery sign an agreement indemnifying the Department against any loss or damage caused to the plant and machinery either during transit or at site of work.
	vii. Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hour lunch break. In case of an urgent work however, the Engineer-in-Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case, the hourly hire charges for overtime to be borne by the contractor shall be 50% more than the normal proportionate hourly charges (1/8 th of the daily charges) subject to a minimum of

	half day's normal charges on any particular day. For working out hire charges for over time, a period of half an hour and above will be charged as one hour and a period of less than half an hour will be ignored.
	viii. The contractor shall release the plant and machinery every seventh day for periodical servicing and/or wash out which may take about three to four hours or more. Hire charges for full day shall be recovered from the contractor for the day of servicing/wash out irrespective of the period employed in servicing.
	ix. The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer-in-Charge, the work or a portion of work for which the same was issued is completed.
	x. Log Book for recording the hours of daily work for each of the plant and machinery supplied to the contractor will be maintained by the Department and will be countersigned by the contractor or his authorised agent daily. In case the contractor contests the correctness of the entries and/or fails to sign the Log Book, the decision of the Engineer-in-Charge shall be final and binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on the contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each in the annexed statement (see attached annexure).
	xi. Not applicable
	xii. The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be responsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The Engineer-in-Charge shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.
	xiii. The contractor will be exempted from levy of any hire charges for the number of days he is called upon in writing by the Engineer-in-Charge to suspend execution of the work, provided AAI's plant and machinery in question have, in fact, remained idle with the contractor because of the suspension.
	xiv. In the event of the contractor not requiring any item of plant and machinery issued by AAI though not stipulated for issue any time after taking delivery at the place of issue, he may return it after two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without, in any way,

	affecting the right of the Engineer-in-Charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.
36.	Condition relating to use of asphaltic materials – Not applicable
37.	Employment of Technical Staff and employees
	Contractors Superintendence, Supervision, Technical staff & Employees
	i. The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.
	The Contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in tender. The Engineer-in-Charge shall within THREE days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-Charge and shall be available at site before start of work.
	All the provisions applicable to the principal technical representative under the clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required to the Engineer-in-Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The Principal Technical Representative and other technical representatives shall be actually available at site fully during all stages of execution work, during recording/checking/test checking of measurements of works whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/test checked measurements/test checked

	<p>measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days. If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified and the decision of the Engineer-in-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibility satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineer employed by him) along with every running account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-Charge.</p>
	<p>ii. The contractor shall provide and employ on the site only such technical assistants as are skilled, and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semi-skilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in-Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.</p>
	<p>iii. The contractor shall not change his engineer/supervisory staff after approval of the Engineer-in-Charge. If Contractor wants to replace any of his staff due to unavoidable circumstances, he will seek permission of Engineer-in-Charge indicating reasons for such change, qualification and experience of the alternative employee suggested by him. The qualification and experience of the alternative staff shall not be inferior to the person employed earlier.</p>

38.	Levy/Taxes/Royalty/Land Licence fee payable by Contractor
	1. Taxes:
	a. All Tendered rates should be inclusive of all taxes including GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/duty scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice.
	b. The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works.
	c. In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System. Security, IT, Furniture, etc. should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items.
	d. In case of change in rate of Tax or any provision relating to levy of Tax resulting in increase in burden of Tax on the contractor, the contractor shall be entitled to receive any compensation for such increase in quantum of Tax payable by the contractor. Similarly recovery shall be made from the contractor on account of decrease of rate of Tax or any provision relating to levy of Tax.
	2. Royalty: Not applicable
	3. License fee for land: Not applicable
39.	Conditions for reimbursement of levy/taxes if levied after receipt of tenders
	1. All Tendered rates should be inclusive of all taxes including GST. Wherever supplies/services involve imports, the same should be identified separately. Basic Custom Duty will be paid by AAI by utilizing EPCG license/duty scrip under SEI scheme of GOI. GST shall be paid to bidder for any taxable supply/services against a valid Tax Invoice.
	2. The bidder is required to provide Tax type and Tax percentage in all bids other than that of civil works.
	3. In case of composite works having component of SITC items, such as Electrical & Mechanical Installation, Airport System. Security, IT, Furniture, etc. should be identified separately with value of goods and services, Tax Rate, amount of Tax so as to enable AAI to claim Input Tax Credit on such items.
	4. In case of change in rate of Tax or any provision relating to levy of Tax resulting in increase in burden of Tax on the contractor, the contractor shall be entitled to receive any compensation for such increase in quantum of Tax payable by the contractor. Similarly recovery shall be made from the contractor on account of decrease of rate of Tax or any provision relating to levy of Tax.

	5. The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorised representative of AAI or the Engineer-in-Charge and further shall furnish such other information/document as the Engineer-in-Charge may require from time to time.
	6. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, give a return notice thereof to the Engineer-in-Charge that the same is given pursuant to the condition, together with all necessary information relating thereto.
40.	Termination of contract on death of contractor
	Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-in-Charge on behalf of the AAI shall have the option of terminating the contract without compensation to the contractor.
41.	If relative working in AAI then the contractor not allowed to tender.
	The contractor shall not be permitted to tender for works in AAI wherein his near relative is posted as an Officer responsible for award and execution of work. He shall also intimate the names of persons who are working with him in any capacity or/are subsequently employed by him and who are near relatives to any officer of AAI. Any breach of this condition by the Contractor would render him, the contract liable to be rejected at any stage.
	NOTE: By the term “near relatives” is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.
42.	No officer in Department of Airport Systems to work as contractor within one year of retirement. Engineer or any officer employed in engineering or administrative duties in an engineering department of AAI shall not work as a contractor or employee of contractor for a period of one year after his retirement from AAI service without the prior permission of AAI in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of AAI as aforesaid, before submission of the tender or engagement in the contractor’s service, as the case may be.
41(a)	Integrity Pact and Independent External Monitor.
	Signing of Integrity Pact is mandatory for every bidder/contractor.
	The Independent External Monitor (IEM) for this work shall be Sh. M. P. Juneja and Sh. Anup K. Pujari IAS (Retd.). All correspondences to IEM regarding implementation of Integrity Pact, shall be addressed to Sh. M. P. Juneja and Sh. Anup K. Pujari IAS (Retd.), C/o Chairman, Airports Authority of India, Rajiv Gandhi

	Bhawan, Safdarjung Airport, New Delhi - 110003. E-mail id of IEMs are mp_juneja@yahoo.com and anup@nic.in respectively.
	i. The Contractor/Supplier shall have to act in accordance with the conditions laid down in the integrity pact.
	a. Signing of Integrity Pact is mandatory for every Bidder/Contractor in this procurement/bid process the signed original pact to be send to the office of Bid Manager and should reach before the due date mentioned in NIT.
	b. The Bidder/contractor shall commit itself to ensure taking all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage as specified in section 3 of the integrity pact.
	c. Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the authority to take all or any one of the action as specified in section 6 of the integrity pact.
	ii. In case any violation of above conduct is established, AAI reserves right to take following actions.
	a. If contractor commits a violation of its commitments and obligations under the Integrity Pact Program during bidding process, he shall be liable for disqualification from tender process and forfeiture of his Earnest Money Deposit/ Bid Security.
	b. In case of violation of the Integrity Pact after award of the contract, Authority is entitled to terminate the contract and shall be entitled to demand and recover from the contractor damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit or Performance Bank Guarantee, whichever is higher.
	c. Authority may initiate appropriate proceedings against the contractor.
	d. Contractor will be liable to pay damages as determined by the Authority.
	e. Contractor against whom an action for violation of its commitments and obligations has been taken earlier, again commits a violation, the Authority is entitled to debar such contractor for future tender/ contract processes for a period as deemed fit.
	f. A violation is considered to have occurred if the Authority is fully satisfied with the available documents and evidence submitted along-with Independent External Monitor's recommendations/suggestions that no reasonable doubt exist in the matter.
43.	Return of material and recovery for excess material issued: Not applicable
44.	Compensation during warlike situations/act of terrorism

	<p>The work (whether fully constructed or not) and all materials, machines, tools and plants scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation or act of terrorism, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation up to the value of the work original executed before being damaged or destroyed and not paid for.</p>
	<p>In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed by the Engineer-in charge up to Rs.5,000/- and by the Executive Director concerned for a higher amount. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.</p>
	<p>Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operation (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools plant, machinery, scaffolding, temporary building and other things not intended for the work.</p>
	<p>In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Engineer-in-Charge.</p>
45.	Apprentices Act provisions to be complied with
	<p>The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the Executive Director (CNS)/General Manager (Airport Systems) may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.</p>
46.	Release of security deposit after labour clearance – Not applicable

47.	Contractor's Liability and Insurance of Works
	i. From commencement to completion of the Works, the Contractor shall take full responsibility for the case thereof and for taking precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof and all AAI's T & P from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that at completion, the Works and all AAI's T & P shall be in good order and condition and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.
	ii. In the event of any loss or damage to the Works or any Part thereof or to any T&P, to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect:
	a. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, remove from the Site any debris and so much of the works as shall have been damaged, taking to AAI's store such AAI's T & P, articles and/or materials as may be directed;
	b. The contractor shall, as may be directed in writing by the Engineer-in-Charge, proceed with the erection and completion of the Works under and in accordance with the provisions and Conditions of the Contract; and
	iii. Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so much loss or damage as has been occasioned by any failure on his part to perform his obligation under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage.
	iv. Without limiting its obligations and responsibilities under other clauses of General Conditions of Contracts, the contractor at his own cost shall insure ,in the joint name of AAI and the contractor, against all losses or damages from whatever cause, arising (other than the accepted risks)for which he is responsible under the terms of the contract and in such manner that the AAI and the contractor are covered during the period of construction of works and any loss or damage occasioned by the contractor in the course of any operation carried out by them for the purpose of complying with its obligations of defects liability clause hereof;
	a. All works including temporary works to their full value executed from time to time.
	b. The construction materials and equipments to their full value brought on to the site by the contractor.

	v. The Contractor shall indemnify and keep indemnified AAI against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of Works and against all claims, demands proceedings, damage costs, charges and expenses whatsoever in respect of or in relation thereto.
	vi. Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, insure at his own cost against any damage, loss or injury which may occur to any AAI property, or to any person for at least the minimum amount of Rs. 1.00 lakh with unlimited number of occurrences (including any employee of AAI) by or arising out of carrying out of the Contract.
	vii. The contractor shall at all times indemnify AAI against all claims, damages or compensation under the provisions of Payment or Wages Act, 1936, Minimum Wages Act, 1948, Employer's Liability Act, 1938, the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act, 1961 or any modifications thereof or any other law relating thereto and rules made there under from time to time or as a consequence of any accident or injury to any workman or other persons in or about the Works, whether in the employment of the Contractor or not, his agents or servants, and also against all costs, charges and expenses of any suit, action or proceedings arising out of such accident or injury and against all sum or sums which may with the consent of the Contractor be paid to compromise or compound any claim. Without limiting his obligations and liabilities as above provided, the Contractor shall insure against all claims, damages or compensation payable under the Workmen's Compensation Act, 1923 or any modification thereof or any other law relating thereto.
	viii. All insurance mentioned above shall be effected with any subsidiary of the General Insurance Company of India or by a company approved by the Insurance Regulatory Authority of India.
	ix. The aforesaid insurance policy/policies shall provide that they shall not be cancelled till the Engineer-in-Charge has agreed to their cancellation in writing.
	x. The Contractor shall prove to the Engineer-in-Charge from time to time that he has taken out all the insurance policies referred to above and has paid the necessary premiums for keeping the policies alive till expiry of the Defects Liability Period. A self-certified copy of such policies are required to be submitted to the Engineer-in-Charge.
	xi. The Contractor shall ensure that similar insurance policies are taken out by his subcontractors (if any) and shall be responsible for any claims or losses to AAI resulting from their failure to obtain adequate insurance protection in connection thereof. The contractor shall produce or cause to be produced by his

	subcontractor (if any) as the case may be, the relevant policy or policies and premiums receipts as and when required by the Engineer-in-Charge. A self-certified copy of such policies are required to be submitted to the Engineer-in-Charge.
	xii. If the Contractor and/or his subcontractor (if any) shall fail to effect and keep in force the insurance referred to above or any other insurance which he/they may be required to effect under the terms of the Contract then and in any such case AAI may, without being bound to, effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by AAI from any moneys due or which may become due to the Contractor or recover the same as a debt due from the Contractor.
	xiii. In case contractor takes Contractor All Risk (CAR) Policy in joint name of AAI and Contractor for full tendered value along with third party liability (max of 10% of tendered value or as applicable as per Insurance Regulatory Authority of India) then there is no requirement for taking separate insurance by sub-contractors.
	However, workmen compensation policy is required to be taken separately by main contractor and sub-contractor for workers employed by them.
48.	Composite Contract and responsibilities of main agency: Not applicable

Section A.4 - SAFETY CODE

1.	Suitable Scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to 1 ($\frac{1}{4}$ horizontal and 1 vertical).
2.	Scaffolding of staging more than 3.6m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding on staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3.	Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4.	Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.(3ft.)
5.	Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11 $\frac{1}{2}$ ") for ladder upto and including 3m. (10ft.) in length. For long ladders, this width should be increased at least $\frac{1}{4}$ " for each additional 30cm. (1 foot) of length. Uniform step spacing of not more than 30cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the site or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded

	in any such suit, action or proceedings to any such person on which may, with the consent of the contractor, be paid to compensate any claim by any such person.
6.	a. Excavation and Trenching – All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30m. (100ft.) in length or fraction thereof, Ladder shall extend from bottom of the Trench to at least 90cm (3fts) above the surface of the ground. The side of the trenches which are 1.5 m. (5 ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated material shall not be placed within 1.5 m. (5 ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
7.	Demolition – Before any demolition work is commenced and also during the progress of the work,
	i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
	ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
	iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8.	All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided.
	i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
	ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
	iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
	iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
	v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measures are adhered to:

	a) Entry for workers into the line shall not be allowed except under supervision of the Sr. Superintendent or any other higher officer.
	b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
	c) Before entry, presence of toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
	d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with oxygen kit.
	e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
	f) The area should be barricaded or condoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
	g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
	h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
	i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time up to which a worker may be allowed to work continuously inside the manhole.
	j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
	k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
	l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
	m) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.

	n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
	o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
	p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
	(vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-
	a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
	b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
	c) Overall shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
9.	An additional clause (viii)(i) of AAI Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
	i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
	ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
	iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
	iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
	v) Overall shall be worn by working painters during the whole of working period.
	vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
	vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man appointed by competent authority of AAI.

	viii) AAI may require, when necessary medical examination of workers.
	ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
10.	When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.
11.	Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:
i)	(a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
	(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
ii)	Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
iii)	In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
iv)	In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the electrical Engineer concerned.
12.	Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as

	may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
13.	All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
14.	These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.
15.	To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
16.	Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rules in force in the Republic of India.

Declaration:

The terms and conditions given in **Section A.1 to 4** given in the Tender Document are read, understood and hereby accepted unconditionally and shall be complied with. I/We agree to abide by the Terms and Conditions, contained in this section of Tender Document and which shall form part of contract conditions and provisions. I/We hereby unconditionally accept(s) these Terms and Conditions of AAI's tender documents in its entirety for the Tender No. _____ for "Provision of SCCTV System at all vehicles access Gates, air side bay and AAI Kalyanamandapam Chennai Airport". It is certified that I/we have not stipulated any condition(s) in our tender offer. In case any condition(s) are found in our tender offer, the same shall be treated as withdrawn.

Signature of Bidder firm authorized Signatory

Name:

On behalf of:

Firms Stamp:

SECTION - B: SPECIAL CONDITIONS OF CONTRACT

S. No.	Description
1.	Standards & Proven Product
1.1.	State of the art technology shall be deployed in the equipment for the system offered and all designs, materials, manufacturing techniques and workmanship shall be in accordance with the highest accepted international standards for this type of equipment.
1.2.	The bidder shall also state, where applicable, the National or other International Standard(s) to which the whole, or any specific part, of the equipment or system complies.
2.	Price
2.1.	This tender shall be an item rate tender and rates shall be valid during the concurrency/pendency of the contract including extension of time limits any granted by AAI. Currency of price quote(s) shall be Indian Rupees only. Bidder shall quote the rates in figures on CPP e-procurement tender portal. The rates quoted in figures shall be in International numerals and whole numbers. Rates shall be quoted clearly for the entire schedule of quantities, item-wise (Please see notes for guidance of tenderers for filling up the schedule of quantities).
2.2.	The quoted price for the work shall remain firm without any escalation for the period of concurrency of contract or one year from the date of award of contract, whichever is later.
2.3.	In case foreign bidder offers Indian supplies, payment can be made by AAI in Indian currency to Indian Authorized firm of foreign bidder provided foreign bidder, on affidavit, undertakes that it shall make no further claims in future to AAI for payments made by AAI to its authorized Indian firm.
2.4.	The bidder shall quote rates of item as per price schedule (Annexure- XI) inclusive of all the taxes and duties applicable in the country of origin as well as in India. All the overseas taxes, overseas freight & insurance, handling charges, inland freight and insurance, as applicable, shall be quoted in price schedule item-wise. Inland taxes in India such as GST and any other tax and handling charges, as applicable, shall be quoted in price schedule item-wise. NOTHING EXTRA SHALL BE PAID ON ANY ACCOUNT. Custom duties, IGST, etc. in India for the imported items, shall be paid by AAI as per actual directly to respective authorities of Government of India in the form of CDEC under served from India scheme.
2.5.	The imported material shall be imported in the name of Airports Authority of India to avail benefits of SERVED FROM INDIA SCHEME and Insurance Policy shall be in the name of AAI. The successful bidder shall not make payment to customs authority directly for items mentioned in the tender, as AAI issues Customs duty exemption

Signature of Bidder:

	certificates under the “SERVED FROM INDIA SCHEME” by the Director General of Foreign Policies under Foreign Trade Policy Act 2004-2009. Hence, the bidder is required to make all documentation for importing in such a way which is acceptable to Customs Authorities for utilizing the exemption certificates by AAI. The High Seas Sales agreement will be executed by AAI and Custom Duty Exemption certificate will be provided by AAI to bidder company within FIFTEEN days of submitting related documents by successful bidder company to AAI. The amount of customs duty exemption certificate used/issued under this scheme shall be adjusted in RA bill.
2.6.	In case the Custom Duty entitlement certificate under the above mentioned scheme is not accepted for any reason by the Custom Authorities, the Custom duty shall be paid by the Bidder to the Custom Department directly. In the event of bidder paying customs duty directly to custom department, the bidder shall submit the proof of customs duty paid for imported items to AAI for their payment.
2.7.	If actual custom duty paid, either through CDEC issued by AAI or by bidder in case of CDEC not accepted for any reason by custom authorities, is less than custom duty value indicated by the bidder in the price bid, the custom duty indicated by the bidder in the price bid shall be deducted from the bidder’s bill. If actual custom duty paid, either through CDEC issued by AAI or by bidder in case of CDEC not accepted for any reason by custom authorities, is more than custom duty value indicated by the bidder in the price bid, the actual custom duty paid shall be deducted from the bidder’s bill.
2.8.	The bidder must fully insure (Till SAT), pay relevant freight, taxes/duties/levies and deliver all items relevant to a site, at site within the contract period, failing which any increase in amount due to change in foreign exchange rate shall be on account of the bidder and the same shall be borne by the bidder. At no extra cost to AAI the bidder shall arrange import license in the name of AAI, if required, to import equipment/components.
2.9.	The cost of Insurance and Freight shall be paid by the bidder. The documents in support of freight, insurance, policies, taxes, duties, levies shall be submitted to AAI. <i>The payment on account of taxes (other than GST), duties and levies shall be made by AAI to successful bidder on actual basis against receipts or the quoted amount, whichever, is less.</i>
2.10.	Bidder quoting in High sea sale (HSS) shall be responsible to ship, custom clear and dispatch items to site and shall include all such charges in its quote. If required AAI shall enter into an Agreement for supplies on High Sea Sale and all expenses borne by bidder shall be included in the price quoted. Nothing extra shall be paid. Demurrage & Detention, forwarding & clearing/handling Charges, Coordination for Road permit, if required, payment of Inland Charges, other Central and State Govt. levies/duties/taxes, etc. shall be included in its quoted price. Overseas/Inland

Signature of Bidder:

	Demurrage if any shall be to the account of Bidder. Bidder shall make all effort for expeditious clearing of supplied items from custom/government authorities and for delivering the goods to AAI at site.
2.11.	Prices opened in Annexure-XI format at AAI e-Procurement tender portal only shall be considered for price comparison.
2.12.	Bidder has to quote the prices strictly as per tender directives.
2.13.	In case, LC is not opened by Principal supplier for foreign supplies, AAI shall pay in INR directly to Indian PE or Indian Agent duly authorized by Principal supplier. In such case, payment shall be made to Indian supplier in INR against invoice duly endorsed by principal supplier on receipt of items in good condition. Payment can also be made to Principal supplier directly in INR provided bidder fulfils all the requirement of Indian Banker and produces proof towards payment of applicable Taxes, like GST, etc.
2.14.	Payment to Indian PE or Indian Agent on behalf of Principal supplier shall be construed as full discharge of AAI obligation to foreign supplier as per agreement. Principal supplier has to give an undertaking that in case the Indian supplier raise any dispute and financial claim against AAI, the same will be dealt by the foreign supplier at his own risk and cost without any liability to AAI.
2.15.	The bidder must deliver all items at site within the time schedule contract period, failing which any increase in amount due to change in foreign exchange rate/duty/taxes/levies fluctuation shall be on account of the bidder and the same shall be borne by the bidder. The rates shall remain firm during the pendency of the contract irrespective of any change in foreign currency rate.
2.16.	The bidder shall arrange import license in the name of AAI, if required, to import equipment/components in the tender with no extra cost to AAI. All items shall be fully insured by the bidder. The cost of Insurance and Freight shall be paid by the bidder. The documents in support of dispatch shall be submitted to AAI by the bidder before shipment. The bidder shall dispatch the goods to consignee in a fully packed condition as per requirement of component/ equipment and fully insured.
2.17.	Since this shall be an indivisible work contract, which includes supply of items as per the schedule of quantities and their installation, testing and commissioning, the contractor is responsible for ensuring the items reach the site in good condition. The bidder shall survey the Rail/Road/Sea Route for transporting the system to the site. If Road Permit is required, requisite request shall be made well in advance to ensure timely delivery as per the terms of contract by the bidder. Charges for the Road Permit shall be paid by the contractor.
3.	GST on Services
3.1.	Works such as Installation, Testing and Commissioning etc. involving GST component, the bidder/service providers shall separately and clearly indicate the

	GST component, if any, which shall be payable extra on actual basis against submission of documentary proof of payment of GST.
3.2.	In case of no GST is quoted by bidder in the price schedule, then GST shall be loaded on the quoted price of the bidder, as applicable, for the purpose of evaluation of their bid.
4.	The bidder shall be solely responsible to ensure the following for which no extra payment other than quoted in price schedule, shall be paid to the firm:
	<ul style="list-style-type: none"> • Sound packing of equipment/components. • Shipment of the items by the due date as per schedule. • Overseas Insurance of equipment(s). • Custom Clearance and handling of items at port of entry in India. • Forwarding and trans-shipment of equipment/ components up to the destination. • Insurance of Inland trans-shipment. • Receipt of equipment at site and handover safe custody to AAI till they are installed, tested and commissioned. • Testing and commissioning of the equipment as specified in the tender. • Handing over of equipment with accessories after successful SAT to the authorized representative of AAI. • On site Guarantee/Warranty.
5.	Validity of Tender
	The tender must remain valid for a minimum of sixty days from the last date of submission of tender.
6.	Paying Authority
	Jt. General Manager (Airport Systems) Airports Authority of India Chennai Airport, Chennai
7.	Payment Terms
	Payment to the bidder firm shall be made in the following manner:-
7.1.1.	Letter of Credit shall be opened upon submission of Performance Bank Guarantee (PBG) as per Clause 8 of General Conditions of Contract or else the payment shall be in Indian Rupees only to the bidder firm or its 100 Percent wholly owned PE in India or to its Authorized Indian firm in India upon submission of PBG.
	Certificate of satisfactory successful completion of work issued by authorized representative of AAI.
7.1.2.	All Payments shall be released after adjusting any compensation for delay which firm might have rendered themselves liable as per provisions of contract and applicable income tax and any applicable deductions.

	<p>WORK SITC :</p> <p>100% payment shall be made after successful completion of work.</p>
	<p>Following documents, as applicable, shall be submitted by the contractor:</p> <ul style="list-style-type: none"> • Invoice + 2 copies • Itemized Packing list with cost of each item + 2 copies • Proof of dispatch of equipment/items • Certificate of goods received at site in physically good condition duly signed by authorized representative of AAI.
7.2.	All Payments shall be released after adjusting any compensation for delay which firm might have rendered themselves liable as per provisions of contract and applicable income tax and any applicable deductions.
8.	Guarantee/Warranty
8.1.	All goods or material shall be supplied strictly in accordance with the specifications. No deviation from such specifications of these conditions shall be made without AAI's agreement in writing, which shall be obtained before any work against the order is commenced. All materials furnished by the bidder pursuant to the Order (irrespective of whether engineering/design or other information has been furnished, reviewed or approved by AAI) are required to be guaranteed to be of the best quality of their respective kinds (unless otherwise specifically authorized in writing by AAI) and shall be free from faulty design to the extent such design is not furnished by AAI. The goods/material used by the bidder and its workmanship shall be of proper quality so as to fulfil in all respects, the operating conditions and other requirements specified in the order.
8.2.	If any trouble or defect originating from the design, materials, workmanship or operating characteristic of any materials arise at any time prior to THIRTY SIX calendar months from the date of successful installation at site , and the bidder firm is notified thereof, the bidder firm at his own expense and at no cost to AAI, make such alterations, repairs and replacements at the site within Forty Eight hours as may be necessary to permit facilitate the functioning of the equipment in accordance with the tender specifications.
8.3.	Warranty period of the system, unit-wise, shall be extended by one week per week of unserviceability, (part of week to be treated as one week), for each default, in case of failure to set right the system to the satisfaction of AAI Engineer-in-Charge within Forty Eight Hrs. of the lodging of complaint by AAI to the contractor.
8.4.	In the event that the materials supplied do not meet the specifications and/or are not in accordance with the drawings, data sheets and rectification as required at site, AAI shall inform the bidder firm giving full details of deficiencies. The bidder firm shall, at his own expense, meet and agree with the representatives of AAI the action required to correct the deficiencies and shall attend to the deficiencies at his own expense.

	Replacement under warranty clause, within FIFTEEN calendar days, shall be made by the bidder firm free of all charges at site including freight, insurance and other incidental charges.
8.5.	Bidder firm shall obtain guarantee/warranty certificates and declaration from OEM(s) for requisite period as specified in Para 8.2 and provide/extend all guarantee/warranty certificates from OEM(s) in case of supplies to AAI.
8.6.	Bidder firm shall be overall responsible for guarantee/warranty to AAI and shall coordinate with respective OEM(s) and suppliers for effective guarantee/warranty as per Para 8.2 at its own cost.
8.7.	Replacement under warranty clause as per Para 8.2 shall be made by the bidder firm free of all charges at site including freight, insurance and other incidental charges.
8.8.	Any custom duty to be paid in case foreign supply during concurrency of warranty shall be paid by the bidder firm.
8.9.	Contractor shall maintain a log book for defect liability period and keep record of all preventive maintenance and break down maintenance, etc. in the logbook. All entries in the logbook must be duly endorsed by AAI In-charge of respective site.
8.10.	Those details must be made available and submitted for periodical check on demand to the Engineer-in-Charge of AAI. Maintenance record shall be property of AAI.
8.11.	AAI shall evaluate overall performance of bidder firm after completion of defect liability/guarantee/warranty period and may decide to deduct 1% of PBG amount from PBG to be refunded/returned, for every loss in AAI intended operational requirements by awarding this works, due to failure on part of bidder firm to provide effective guarantee/warranty at site. Hence, it shall be mandatory on part of bidder firm to have proper effective agreement with OEM(s) to provide effective guarantee/warranty to AAI as per Para 8.2, at site.
8.12.	Completion Certificate: Completion Certificate shall be recorded by AAI, on completion of the work in all respect and the same shall be issued to the contractor on request. The completion certificate shall specify the date of successful completion and completion cost of work, with other details.
9.	Packing and Marking
9.1.	All packing shall be strong enough to withstand rough handling during loading, unloading and transporting of the packages. Fragile articles shall be packed with special precaution and shall bear the marking like 'Fragile', 'Handle with care' and 'This Side Up', etc.
9.2.	All delicate surfaces of equipment/goods shall be carefully protected and painted with protective paint/compound and wrapped to prevent rusting and damage.
9.3.	Attachments and spare parts of equipment and all small pieces shall be packed in wooden crates with adequate protection inside the crates and wherever possible shall be sent along with the major equipment. Each item shall be provided an

	identification so as to identify it with the main equipment and part number and reference number shall be indicated.
9.4.	All protrusions and threaded fittings shall be suitably protected and openings shall be blocked by covers.
9.5.	Wherever required equipment material shall be packed in polyethylene bags and silica gel or similar dehydrating compound shall be put inside the bags to protect the equipment. Pipes/tubes made of stainless steel, copper, etc. shall be packed in wooden crates irrespective of their sizes. The contractor shall be held liable for all damages or breakage of the goods attributable to defective or insufficient packing as well as for corrosion due to insufficient protection.
9.6.	On three sides and top of package, markings as desired by AAI, shall be provided with indelible paint.
10.	Patents, Liability & Compliance of Regulations
10.1.	Bidder firm shall protect and fully indemnify AAI from any claims for infringement of patents, copy right, trademark or the like.
10.2.	Bidder firm shall also protect and fully indemnify AAI from any claims from bidder firm's workmen/employees, their heirs, dependents, representatives, etc. or from any other person(s) or bodies/ companies, etc. for any act of commission or omission while executing the order.
10.3.	Bidder firm shall be responsible for compliance with all requirements under the laws and shall protect and indemnify AAI completely from any claims/penalties arising out of any infringements by bidder firm or its workmen/employees.
10.4.	Limitation of Liability
	(a) Notwithstanding any other term, there limitation of liability in case of any damages for bodily injury (including death) and damage to real property and tangible personal property due to gross negligence and wilful misconduct of the other party shall not exceed the contract value and in no event shall either party (including the Successful bidder and subcontractors) be liable to the other for any indirect, incidental, consequential, special or exemplary damages, nor for any damages as to lost profit, data, goodwill or business, nor for any reliance or cover damages in respect thereof, even if it was advised about the possibility of the same. Neither Party, however, shall be liable under the agreement, if he proves that he or his agent had taken all necessary measures to avoid the damage or that it was impossible for him or them to take such measures. However, in case of any dispute between the two parties the decision of court shall be final.
	(b) In all other cases not covered by Para (a) above the total liability of either party under the terms of the contract shall not exceed the a maximum of contract value and in no event shall either party (including the Successful bidder and subcontractors) be liable to the other for any indirect, incidental, consequential,

	special or exemplary damages, nor for any damages as to lost profit, data, goodwill or business, nor for any reliance or cover damages even it was advised about the possibility of the same.
	(c) Neither Party shall be liable to the other for delay in discharging its obligations, to the extent that such delay or failure is attributable to the other Party. In case of such delay, the delayed Party shall be entitled to an extension of time to perform its obligations and, unless otherwise agreed (with or without levy), the period of the extension will be equal to the amount of delay.
11.	Substitution & Wrong Supplies
	Substitution shall be limited to makes meeting technical and functional requirements. Unauthorised substitution is not permitted and, materials delivered not complying with the description or quality or supplied in excess quantity or rejected goods shall be taken back by the contractor at his cost and risk.
12.	Insurance and Freight
	Contractor shall make transit insurance for all goods for safe delivery of material at site. The rates offered by bidders must include expenses on this account. Thus it will be the responsibility of the supplier/contractor to deliver all goods in perfect working/good condition at respective destinations. In case of any damage during transit, contractor/supplier will get the items replaced/repared at his cost. In no circumstances the supplier/contractor shall be relieved of his responsibility for safe delivery of goods at site.
	In case of loss or damage to stores in transit where the stores have been insured by the supplier against such risks, he will take up the matter with the insurer and recover the loss from them. AAI will be responsible for payment of stores actually received by the consignee at site.
	The contractor shall make arrangements at no additional cost to AAI for transporting the equipment to the AAI site as the same has been included in price quote. The firm has to obtain all risk contract policy in favour of AAI against contract amount, which shall be enforced up to successful completion of work and handing over site to user.
	Packing lists, consignment details in terms of volume/weight, size, number of boxes and container load, etc. shall be provided by the contractor.
13.	Taxes, Permits and Licences
13.1.	Contractor shall be liable to pay any and all Indian/non-Indian taxes, duties, levies, lawfully assessed against AAI or Contractor, in pursuance of the contract. In addition, Contractor shall be responsible for payment of all Indian duties, levies and taxes lawfully assessed against Contractor for both corporate and personal Income and also all other taxes, etc. relevant and applicable in respect of his property.

13.2.	Contractor firm shall evaluate all possible Indian tax liability on his own. Foreign bidders not having office in India are to obtain tax withholding Certificate from Income Tax Department, at its own cost and submit the same to AAI for release of Payments.
13.3.	The payment on account of taxes, duties and levies shall be made by AAI to successful bidder on actual basis against receipts or the quoted amount, whichever, is less.
14.	Miscellaneous
14.1.	In addition to the above any other information/description, the bidder may wish to provide, like the features/performance figures specified/indicated shall be with supporting documents/calculations. All figures indicated by the bidder must be fully qualified and subject to co-ordinate performance.
14.2.	AAI reserves the right to change the item quantity to be executed up to the extent of ±50 Percent for each item and subject to overall variation of ±30 Percent of the total contract value.
14.3.	AAI reserves the right to place repeat order, with the same terms & conditions as for the first order, and the quantity of repeat order shall not exceed 50 Percent of quantity supplied in the original order.
15.	Third Party Insurance
15.1.	Before commencing the execution of works the contractor (but without limiting his obligations and responsibilities) shall insure against all damages loss or injury, which may occur to any property (including that of the employer) or to any person, including any employee of the employer by or arising out of the execution of the works or temporary works or in carrying out of the contract.
15.2.	This insurance cover shall be for the period up to system acceptance by AAI upon issue of Completion Certificate.
16.	Deviation
	No deviation on terms & conditions and clauses of NIT shall be entertained.
17.	Installation and Commissioning Standards
17.1.	Installation shall be carried out by technically well qualified and certified personnel as per the requirements.
17.2.	Contractor shall not outsource any part of the contract to any other vendor/third party contractor, without prior written permission of AAI.
17.3.	Liability, if any, arising out of such third party contracts to any other vendor by contractor shall be to contractors account.
17.4.	In no case AAI shall be liable on behalf of contractor to any other third party contractor/Government of India/State/Regulatory Authorities.

17.5.	Any liabilities arising out of such third party contracts by contractor or its men working at site shall be only to contractors account and shall be deducted out of its running bills.
18.	Monitoring the Performance of the contractor:
18.1.	Performance of the Contractor shall be monitored by AAI on regular basis. The delay/default shall be examined and if required a 'show cause' Notice shall be issued to the Contractor bringing out the short-comings and default. The contractor's reply shall be carefully scrutinized with respect to the factual position and following action will be taken:
	i) In case it is found that Contractor is not fully responsible for delay/default, the Firm may be debarred for participation in AAI tendering in future for a limited period.
	ii) In case, it is established that contractor is fully responsible for unsatisfactory performance, the Firm may be blacklisted.

Declaration:

The terms and conditions given in **Section B** given in the Tender Document are read, understood and hereby accepted unconditionally and shall be complied with. I/We agree to abide by the Terms and Conditions, contained in this section of Tender Document and shall form part of contract conditions and provisions. I/We hereby unconditionally accept(s) these Terms and Conditions of AAI's tender documents in its entirety for the Tender No. _____ for "Provision of SCCTV System at vehicles access Gates, air side bay, AAI Kalayanamandapam at Chennai Airport". It is certified that I/we have not stipulated any condition(s) in our tender offer. In case any condition(s) are found in our tender offer, the same shall be treated as withdrawn.

Signature of Bidder firm authorized Signatory

Name:

On behalf of:

Firms Stamp:

SECTION- C PART A: SCOPE OF WORK, GENERAL & QUALITATIVE REQUIREMENTS

S. No.	Description	Statement of compliance																								
(1)	(2)	(3)																								
1.	Introduction																									
1.1.	Surveillance CCTV System is required to ensure effective surveillance of an area as well as create a tamperproof record for post event analysis. The CCTV system shall be provided at Gate 1, 2, 4, 5, 6, 9 (six gates) and AAI kalyanamandapam. Independent Live monitoring console shall be provided at all the gates and AAI kalayanamanadapam. Future all will be integrated/the cctv feed to be connected to SOCC/AOCC. The PTZ cameras (Make : INFINOVA) shall be installed at uncovered bays at airside and integrated/added with existing SCCTV system(VMS: Videonetics software Security Operations Control Center (SOCC), Airport Operations Control Room (AOCC))																									
1.2.	<p>Presently Chennai Airport (Domestic and International Terminal and associated Indoor & Outdoor areas) is covered by 672 IP Cameras (Make: INFINOVA). The camera signals are aggregated at IT Data Center consisting of Servers, Storage, Network and Management Systems, through number of Edge/Distribution Network Switches.</p> <p>Details of the existing cameras and software are as under:</p> <table><tr><th>S.No</th><th>Description</th><th>Existing Qty.</th><th>Make</th></tr><tr><td>1.</td><td>Camera</td><td>700</td><td>INFINOVA</td></tr><tr><td>2.</td><td>Video Management System</td><td>1 Lot</td><td>Videonetics</td></tr><tr><td>3.</td><td>Video Analytics System</td><td>1 Lot</td><td>Videonetics</td></tr><tr><td>4.</td><td>Storage</td><td>1 Lot</td><td>Dell - EMC</td></tr><tr><td>5.</td><td>Servers</td><td>1 Lot</td><td>HP</td></tr></table>	S.No	Description	Existing Qty.	Make	1.	Camera	700	INFINOVA	2.	Video Management System	1 Lot	Videonetics	3.	Video Analytics System	1 Lot	Videonetics	4.	Storage	1 Lot	Dell - EMC	5.	Servers	1 Lot	HP	
S.No	Description	Existing Qty.	Make																							
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5.	Servers	1 Lot	HP																							
1.3.	The present tender is for CCTV coverage for Vehicles access gates (6Nos.), AAI Kalyanamandapam and uncovered air side bays (10 nos.) Providing Cameras(fixed/outdoor/indoor, PTZ/outdoor), 8 channel NVR (7nos.) & 24 channel NVR(1No.) , Internal Storage(minimum 4TB/30 days backup), Networking, Other accessories, etc., including integration testing and commissioning.																									

1.4.	Equipment with better specifications shall be accepted.	
	<p>Note: -</p> <ol style="list-style-type: none"> 1. NVR and Camera server are synonymous in these specifications. 2. Original Equipment Manufacturer (OEM) of Cameras and NVR with Storage , the offered products must be certified for Safety/Emission of International standards such as CE/EN/UL. 	
2.	Scope of Work	
2.1.	Scope of work is briefly but not exhaustively described in succeeding paragraphs. The bidder has to quote the price considering the complete scope of work to meet general, qualitative and technical requirements of tender.	
2.2.	The bidder shall provide the fault-tolerant IP network of Surveillance CCTV System with supply of all required hardware like Cameras, NVR with Storage, Equipment Rack, UPS, Network Switches, Data & Power cabling, etc. including their installation, integration , testing & commissioning as per tender requirements and Schedule of Items.	
2.3.	Testing of system components shall be done as per original equipment manufacturer's specifications and guidelines.	
2.4.	The entire work has to be executed with total responsibility by bidder. All necessary technical completeness shall be ensured by bidder at the time of quoting, execution and completion of works.	
2.5.	Bidder shall inspect/undertake survey at site its own cost to understand the scope and intricacies involved in carrying out the work as per scope of tender.	
3.	General & Qualitative Requirements	
	<p>Bidder has to fill General & Qualitative Requirements statement as per direction given below:</p> <ol style="list-style-type: none"> i) For stating compliance: Write "C" in the third column below. ii) For stating Non-compliance: Write "NC" in the third column below. iii) For stating Partial compliance or conditional compliance: Write "PC" in the third column below. 	
4.	General Specifications	
4.1.	Proposed SCCTV system is NVR with cameras , scalable, IP network centric functional and management architecture, aimed at providing high-speed manual/automatic operation for the best performance.	
4.2.	System shall comprise of IP Digital Outdoor & Indoor Colour Video Cameras, Network Switches, Network Video Recorder consisting of internal Storage for recording, Application software with the latest	

	Video Management System, and having Monitor & Mouse-Keyboard for viewing of live and recorded images.	
4.3.	System shall be provided with Online UPS Power Backup for minimum of THIRTY minutes on full load. Necessary Data, Power and Control Cabling shall be provided by the contractor.	
4.4.	System shall facilitate viewing of live and recorded images and controlling of all cameras by the authorized users connected in the LAN, and WAN for remote monitoring.	
4.5.	IP SCCTV System shall use video signals from various types of indoor/outdoor CCD/CMOS colour cameras installed at different locations, process them for simultaneously viewing, recording and replay, on all workstations/monitors at SOCC/AOCC/Other Control Rooms and with H.264 or better compression standard. Joystick Controller/Mouse-Keyboard shall be used for Pan, Tilt, Zoom, Camera Selection and other functions of desired cameras. When both the viewing stream and the recording stream are set at the same FPS and resolution, the camera shall send on the network a single multicast stream to reduce network Bandwidth.	
4.6.	System must provide built-in facility of Water-marking & Digital Certificate to ensure tamperproof recording so that these can be used as evidence at a later date. The recording shall support audit trail feature.	
4.7.	The offered system shall have facility to export the desired portion of clipping (from a desired date/time to another desired date/time) on CD or DVD. Viewing of this recording shall be possible on standard PC using standard software like Windows Media Player etc.	
4.8.	System should have built-in health diagnostic module to monitor details like Network link failure, device online/offline details, Camera failure, Storage disconnection error, bandwidth loss errors etc. Further it shall be capable to monitor operation of all services and having facility to restart automatically when system malfunctions.	
4.9.	Capturing of Driver's Photographs & Vehicle Registration Number: (a) It shall have the capability of recording photographs of drivers and Registration Number of vehicles.	
4.10.	Artificial Intelligence: System shall have image tracking facility. If any object is found to be stationary for a pre-defined period, the system shall track the event and alert the operator. This facility may be provided on select cameras at Entry point, Boarding gates, and Arrival area and as defined by AAI during System Configuration. The system should	

	have the features for identifying tail-gating, vehicle detection, unattended baggage identification, queuing analysis, external text insertion feature, and intruder detection.	
4.11.	System shall provide Video File Export tool to export the native video format with all protections (e.g. digital certificate, encryption) for enabling to play this audio/video on a computer/Laptop.	
4.12.	The native file format audio/video player shall show the status of the audio/video authentication as available with the original file format, to enable forensic officials to confirm whether audio/video file has been tampered with.	
4.13.	The system shall provide tamper-proof video recording.	
5.	General Design/Functional parameters of SCCTV system	
5.1.	Camera Server shall offer both video stream management and video stream storage management. Recording frame rate & resolution in respect of individual channel shall be programmable.	
5.2.	System shall ensure that once recorded, the video cannot be altered; ensuring the audit trail is intact for evidential purposes.	
5.3.	System shall provide sufficient usable storage for camera recordings at 704x576resolution (minimum 25 FPS) or at 1280X720resolution (minimum 15 FPS)orbetter quality for a period of continuous THIRTY (30) days using necessary compression techniques.	
5.4.	All the indoor cameras & control equipment shall be suitable for operation from 0°C to 40°C and relative humidity up to 80% non-condensing. Cameras & other equipment, meant for outdoor installations, shall be suitable to work from (-) 10°C to (+) 50° C with RH up to 90% non-condensing. This temperature range may be achieved with or without heater.	
5.5.	IP Camera shall be used for image capture. Indoor cameras shall be either with vari-focal lens or with Pan/Tilt & Zoom lens as per site requirement. All Cameras shall be Day/Night Wide Dynamic Range (WDR) Colour Cameras. All outdoor Fixed Cameras shall be equipped with Infra-Red (IR) sensors.	
5.6.	All camera recordings shall have Camera ID& location/area of recording as well as date/time stamp. Camera ID, Location/Area of recording & date/time shall be programmable by the system administrator with User ID & Password.	
5.7.	Facility of camera recording in real-time mode (25 FPS)/15/12.5/10/5 or lower FPS as well as in any desired combination must be available in the system.	

5.8.	Facility of Edge storage (SD Card – 32GB) may also be available in each camera.	
5.9.	Monitoring at Local Control Rooms may be restricted to operation of certain cameras only and system administrator should be able to configure the system, accordingly.	
6.	NVR with Video management Software	
6.1.	The NVR software should have inbuilt facility to store configuration of all cameras.	
6.2.	The software shall support flexible 1/4/8/16 user defined Windows Split screen display mode as per site requirement.	
6.3.	The software shall be able to control all cameras features such as PTZ control, Iris control, auto/manual focus, and color balance of camera, Selection of presets, Video tour selection, etc.	
6.4.	The software is required to generate reports of stored device configuration. The control software is required to provide alarm and alarm log. The log shall be able to be archived, printed and displayed using a device filter, a device group filter and/or a time window.	
6.5.	The software shall have user access authority configurable on per device or per device group basis. The authorized user shall have the facility to request the access of any camera and can control the camera for a reservation period. Control of camera is released after the reservation period.	
6.6.	The system software shall provide User activity log (audit trail) with user id, time-stamp, and action performed, etc.	
6.7.	The administrator shall be able to add, edit & delete users with rights. It shall be possible to view ability/rights of each user or the cameras which can be viewed & controlled as per the permission assigned by the administrator.	
6.8.	The users shall be on a hierarchical basis as assigned by the administrator. The higher priority person can take control of cameras, which are already being controlled by a lower priority user. There shall be minimum 03 hierarchical levels of security for providing user level log in.	
6.9.	The system software shall have recording modes viz. continuous, manual, or programmed modes on date, time and camera-wise. All modes shall be disabled and enabled using scheduled configuration. It shall also be possible to search and replay the recorded images on date, time and camera wise. It shall provide onscreen controls for remote operation of PTZ cameras. It shall have the facility for scheduled	

	recording. Different recording speeds (fps) and resolution for each recording mode for each camera shall be possible.	
6.10.	System shall provide programmable motion detection and recording, to be defined area-wise. Open interface to receive Motion trigger and open interface to define the areas (at least four different areas) should be available from the cameras. System must be able to support Video Motion Detection algorithms to detect and track objects, learn the scene, adapt to a changing outdoor environment, ignore environmental changes including rain, hail, wind, swaying trees and gradual light changes. On Detection, software must be able to generate an alarm (visual/audio) to the operator.	
6.11.	NVR with internal storage(HDD) shall be installed in rack at each gates. The capacity of storage should be adequate for recording of all cameras for a period of continuous 30 days or more.	
6.12.	The software shall support web based user connecting via the Internet/Intranet and mobile OS (Android, iOS).	
6.13.	The software shall support a built-in Hardware or Software Watchdog module. Watchdog shall monitor operation of all services and automatically restart them if they are malfunctioning.	
6.14.	The software should be able to receive alarm Signal of the camera and should be able to send relay out signal through the camera.	
7.	User facilities covered in NVR application software	
7.1.	The user shall consist of Administrator Tool application, a Monitoring application, and an Archive Player application.	
7.2.	The client shall perform the following applications simultaneously without interfering with any of the Archive Server operations (Recording, Alarms, etc.):	
	a. Live display of cameras	
	b. Control of PTZ cameras	
	c. Playback of archived video	
	d. Retrieval of archived video	
	e. Instant Replay of live video	
	f. Configuration of system settings	
7.3.	The user applications shall provide an authentication mechanism, which verifies the validity of the user.	
7.3.1.	The user shall be able to define bookmarks, the amount of time he wishes to go back from a predefined list or through a custom setup period.	

7.3.2.	The user shall be allowed to add bookmarks to recorded clips of video.		
7.3.3.	The user shall be able to choose and trigger an action from a list of available actions included but are not limited to:		
7.3.4.	i. View camera in a video tile ii. View Map or procedure in video tile. iii. Starting/stopping PTZ pattern iv. Go to PTZ preset v. Sending alert messages		
7.3.5.	The user applications shall be capable to display all camera sequences created in the system.		
7.3.6.	The user shall be allowed for unlimited cameras sequences, which can be run independently of each other on either of the monitor tiles.		
7.3.7.	The user shall be able to drag and drop a camera from a tree of available cameras into any video tile for live viewing.		
7.3.8.	The user applications shall support digital zoom on a fixed/PTZ camera's live and recorded video streams.		
7.3.9.	The user shall be able to control pan-tilt-zoom, focus and dome relays.		
7.3.10.	The user shall be allowed to access the PTZ configuration menus with no need of additional hardware.		
8.	Detailed Technical Specifications		
8.1.	IP PTZ Day/Night Colour 2 Mega Pixel Camera: The preferred make INFINOVA only. The proposed PTZ Cameras shall be installed at uncovered bays at Air side hence those cameras shall be compatible for integration of existing SCCTV system at SOCC/AOCC. Also offered INFINOVA cameras very much compatible with existing VMS Software & Video Analytic Software of M/s. Videonetics' s Software.		
8.1.1.	Image Device:	1/3" or better CMOS sensor	
8.1.2.	Optical zoom (For Indoor Camera):	20 x or better	
8.1.3.	Optical zoom (For Outdoor Camera):	30 x or better	
8.1.4.	Number of Pixels:	1920 x 1080	
8.1.5.	Resolution:	1080p HD or better	
8.1.6.	Minimum Illumination:	B/W: 0.1 Lux or better; Colour: 0.6 Lux or better	
8.1.7.	Wide Dynamic Range (WDR):	90 dB or better	
8.1.8.	Pan Travel:	360° Continuous	

8.1.9.	Tilt Travel:	0 - 90°, Auto flip	
8.1.10.	Manual Tilt Speed:	0.5°/SEC to 90°/SEC	
8.1.11.	Manual Pan Speed:	0.5°/SEC to 90°/SEC	
8.1.12.	Preset Tilt Speed:	0.5°/SEC to 90°/SEC	
8.1.13.	Preset Pan Speed:	0.5°/SEC to 300°/SEC	
8.1.14.	Video Stream:	Dual H.264 or better video stream for independent viewing and recording	
8.1.15.	Auxiliary inputs & outputs:	1 alarm input, 1 relay output	
8.1.16.	Privacy masking zones:	4 or more	
8.1.17.	Preset positions Min.:	64	
8.1.18.	Iris Control:	Auto	
8.1.19.	Focus:	Auto	
8.1.20.	Back Light compensation:	Auto	
8.1.21.	White balance:	Auto	
8.1.22.	Electronic shutter:	Auto	
8.1.23.	Remote access:	Via browser for configuration, viewing and control	
8.1.24.	Ethernet:	10/100 Base-T Auto sensing, Half/ Full Duplex (RJ45)	
8.1.25.	S/N Ratio:	>= 50 dB	
8.1.26.	IR illuminator	Internal/External	
8.1.27.	IR illumination range	Minimum 200 mtrs	
8.1.28.	SD Card:	32 GB or more	
8.1.29.	Standard:	CE certified & UL listed	
8.1.30.	Compliance	ONVIF-S profile (Open Network Video Interface Forum)compliant.	
8.1.31.	Power Supply	Offered Camera and Power Adaptershall be of the same OEM make.	
8.1.32.	Power Supply (Indoor):	Shall have the ability to be powered by PoE+ 802.3 as well as AC/DCPower Adapter	
8.1.33.	Power Supply (Outdoor):	AC/DCPower Adapter	
8.2.	IP Day/Night Fixed Colour2 Mega Pixel Camera		
8.2.1.	Image Device:	~ 1/3" or better CMOS Sensor	
8.2.2.	Lens:	OEM Varifocal lens, Auto/ Programmable Iris, lens f ~ 3 mm to 9 mm (±25% for Indoor Dome/Bullet	

		Camera) & f ~ 10 to 40 mm (±10% for Outdoor Box Camera) or better	
8.2.3.	Number of Pixels:	1920 X 1080	
8.2.4.	Resolution:	1080p HD or better	
8.2.5.	Minimum Illumination:	B/W: 0.1 Lux or better; Colour: 0.6 Lux or better	
8.2.6.	Video Stream:	Dual H.264 or better video stream for independent viewing and recording	
8.2.7.	Electronic Shutter:	Auto	
8.2.8.	Auxiliary inputs & outputs:	1 alarm input, 1 relay output	
8.2.9.	Iris Control:	Auto	
8.2.10.	White balance:	Auto	
8.2.11.	Wide Dynamic Range (WDR):	90 dB or better	
8.2.12.	Remote access:	Via browser for configuration, viewing and control	
8.2.13.	Ethernet:	10/100 Base-T Auto sensing, Half/Full Duplex (RJ45)	
8.2.14.	S/N Ratio:	>= 50 dB	
8.2.15.	IR Illuminator	Internal/external	
8.2.16.	SD Card:	32 GB or more	
8.2.17.	IR illuminator Range	Minimum 30 mtrs	
8.2.18.	Standard	CE certified & UL listed	
8.2.19.	Compliance	ONVIF-S profile (Open Network Video Interface Forum)compliant.	
8.2.20.	Power Supply	Offered Camera and Power Adaptershall be of the same OEM make.	
8.2.21.	Power Supply (Indoor):	Shall have the ability to be powered by PoE+ 802.3 as well as AC/DCPower Adapter	
8.2.22.	Power Supply (Outdoor):	AC/DCPower Adapter	
8.3.	Camera Housing & mount:		
8.3.1.	Camera Dome:	Indoor and outdoor Dome Cameras shall be provided with semi-spherical vandal-resistant hardened dome shells enclosures to protect CCTV cameras from the dust particles, wind load,	

		vibrations, etc., and to provide discrete video surveillance by concealing the camera optics/ electronics. The optical dome must be able to withstand temperature extremes and not become brittle or cloudy with exposure to moisture/solar and Ultraviolet radiation.	
8.3.2.	Camera Box:	Outdoor Fixed Box Cameras shall be provided Die-cast Aluminum powder coated housing with Glass Window.	
8.3.3.	Housing (Indoor):	IP 54, Shall be of the same make as of the camera.	
8.3.4.	Housing(Outdoor):	IP 66 rated, Built in Heater and Blower and shall be of the same make as r~ f camera. Outdoor PTZ camera may be IK10 certified for vandal proof rating.	
8.3.5.	Mount:	Standard mounting of same OEM make as of camera shall be supplied for Surface/Ceiling/pipe/corner/parapet/pendant with Wall-mount bracket/In-Ceiling. According to site conditions,if any extension to standard mounting is required, then the same may be supplied as indigenous item.	
8.3.6.		The camera mounting shall be compact and indoor/outdoor type as required and capable to hold the total weight of system without any technical deformity.	
8.4.	The NVR software shall be able to control all cameras features such as PTZ control, Iris control, auto/manual focus, and color balance of camera, Selection of presets, Video tour selection etc		
8.5.	The software should have inbuilt facility to store configuration of cameras.		
8.6.	The software shall Support flexible 1/4/8/16 user defined Windows Split screen display mode or scroll mode on the PC/Workstation monitor or on preview monitor as per site requirement		
8.7.	The system software shall provide User activity log (audit trail) with user id, time stamp, and action performed, etc.		
8.8.	The system software shall have recording modes viz. continuous, manual, or programmed modes on date, time and camera-wise. All modes shall be disabled and enabled using scheduled configuration. It shall also be possible		

	to search and replay the recorded images on date, time and camera wise. It shall provide onscreen controls for remote operation of PTZ cameras. It shall have the facility for scheduled recording. Different recording speeds (fps) and resolution for each recording mode for each camera shall be possible.	
8.9.	The NVR software shall support web based user connecting via the Internet/Intranet	
8.10.	It shall provide video file export tool to export the native video format with all protections for enabling to play this audio/video on a computer/Laptop.	
8.11.	Capturing of Driver's Photographs & Vehicle Registration Number	
8.12.	It shall provide programmable motion detection and recording, to be defined area wise.	
8.13.	Operating system: Embedded Linux or better	
8.14.	Image Decoding: H264	
8.15.	Video standard: PAL	
8.16.	Network video input: 8 Channel 1080P for 8 Channel NVR with minimum HDD 4TB, 24 Channel 1080 P for 24 Channel NVR with minimum HDD 4TB	
8.17.	split preview:1/4/8	
8.18.	Function: recording, playback, backup & remote access, USB backup	
8.19.	Bw: minimum 128mbps	
8.20.	Internal storage: minimum 2 SATA ports, populated with minimum 4TB for 30 days backup	
8.21.	HDMI output: 1, resolution 1920x1080	
8.22.	VGA output: 1, resolution 1920x1080	
8.23.	Audio in /out: 1, 3.5 RCA	
8.24.	Network port: minimum 1RJ45,10/100/1000 mbps	
8.25.	USB port: 1 USB2.0, 1 USB3.0	
8.26.	Protocol: Supports TCP/IP,UDP,DHCP,DNS,NTP,DDNS,PPPOE, FTP, UPNP,Multicast,etc.,	
8.27.	Power: DC 12V with adaptor	
8.28.	Certification: CE-certified UL listed for safety	
8.29.	Support of: ONVIF, Export/Import of files,IPC central management	
8.30.	Support Keyboard and Mouse	
8.31.	Support multi-casting	
8.32.	NVR should comfortable with offered cameras	
8.33.	LED Display Monitor	
8.34.	Screen Size: 32" & 55" (diagonal) or higher	
8.35.	Monitor Type: Industrial Professional suitable for 24x7 operation	
8.36.	Back Light: LED	
8.37.	Aspect Ratio: 16:9	

8.38.	Resolution: Full HD, 1920 X 1080 pixels or better	
8.39.	Brightness: 450 cd/square m or better	
8.40.	Contrast Ratio (Native): 2400:1 without IPS 1100:1 along with IPS	
8.41.	Viewing angle: 178 degree	
8.42.	System: PAL	
8.43.	Operating Voltage: Suitable for single phase AC supply 180-230 V, 50 Hz	
8.44.	Video Input Ports: Digital Ports: HDMI/DVI-D; PC- VGA in: 1xD-Sub	
8.45.	8 Port POE Switch/8 Port POE Gigabit switch	
8.46.	Technical Specifications:	
8.46.1.	A. PORT DENSITY a. 8 port . / Minimum 4 POE Ports 10/100 Base-T with Metal casing b. 8 port POE gigabit switch, all 8 ports POE, 10/100/1000 mbps with metal casing, rack mount	
8.46.2.	B. POWER OVER ETHERNET a. Provide standards based 802.3af and 802.3at b. Power over Ethernet to minimum 4nos. 10/100 Base-T ports c. Power over Ethernet 8nos(Gigabit switch), 10/100/1000 d. Support for up to minimum 4 nos. Class 3 Powered devices at 15.4 watts	
8.47.	Equipment Rack	
	Technical Features:	
8.47.1.	Contractor shall provide rack(s) fully wired for housing Switches, NVR , Keyboard/Mouse, etc.	
8.47.2.	9U,6U& 4U with Aluminum extruded frame structure design. This aluminum frame structure shall be Powder coated with Matt finish.	
8.47.3.	Side panels shall be detachable with slam latches, ventilation slot on side panels, full vented top cover (minimum 2 Nos. of 230 VAC Fans) and bottom cover with the cable entry provision.	
8.47.4.	All the Servers (NVR/Camera, Video Analytics) shall be installed in Rack with OEM Rack Mounting Kit(s).	
8.47.5.	Wiring shall be done neatly with suitable cable manager.	
8.47.6.	Power manager A/C main distribution box with minimum 4 nos. of 5 amp socket and proper Earthing shall be provided.	
8.47.7.	Rack shall include all required parts/accessories to install all devices/equipment.	

8.47.8.	It shall have front and rear glass/perforated cover with locks. Rack's depth shall be sufficient to accommodate all NVR. Switch, Keyboard/Mouse and other network components, with the doors remain closed.	
8.48.	600VA & 2 KVA with SMF batteries for minimum 15 & 30 minutes of battery backup	
8.48.1.	Technical Specifications:	
8.48.2.	Input: 230V, 50 Hz \pm 3% AC	
8.48.3.	Output: 230V \pm 1% (with alternative setting for 220V \pm 1%) 50 \pm 0.5Hz, Single phase. Voltage regulation from no load to full load shall be within \pm 1% in both the cases.	
8.48.4.	Efficiency (at rated output voltage and frequency): Overall efficiency (minimum): 90%	
8.48.5.	UPS power factor at rated load: better than 0.8 lagging or better.	
8.48.6.	Technical Features:	
8.48.7.	Protections: Following protection shall be provided in UPS:	
	a. Over voltage, short circuit, and overload at UPS output terminal.	
	b. Under voltage at battery terminal.	
	c. Overshoot and undershoot shall not be greater than 4% of rated voltage for duration of 40m sec. (maximum)	
8.48.8.	Indicators:	
	a. Following indicators shall be provided:	
	(i) Mains presence.	
	(ii) Battery charging and discharging	
	(iii) Output overload	
	(iv) Low battery voltage.	
8.48.9.	Battery	
8.48.10	UPS shall be supplied with SMF battery only.	
8.48.11	Bidders shall declare battery AH capacity, battery voltage, total number of batteries, make and model of batteries offered with UPS.	
8.48.12	Batteries for UPS shall be of the following makes: EXIDE, PANASONIC, AMAR RAJA, GLOBAL, ROCKET, BASE.	
8.49.	Networking, Cabling, etc.	
A.	General Features	
8.49.1.	The required communication media (Fibre Optic and other cables) including their lengths and interface equipment shall be determined based on the locations of the different type of sensors and shall be supplied by the bidder. Requisite terminations and integration of	

	CAT6/FO cables with the NVR CCTV System shall be done by the bidder.	
8.49.2.	The quantities of the cabling components (i.e. various types of cables and conduits and their laying) mentioned in Annexure-XII (Price Schedule) are indicative.	
8.49.3.	Payments towards the cabling components as defined above shall be made as per actuals, subject to joint measurements, after successful completion of the work.	
8.49.4.	The laying of the outdoor cables shall be in accordance with the standard industry practice.	
8.49.5.	The offered System shall be complete with all equipment and accessories including connectors, patch cords, other networking accessories, mounting, and fixing hardware, plugs, sockets, etc.	
8.49.6.	Cost of Adaptors, Connectors, Patch Cords, Mounting/Fixing hardware, Electrical Switches/Sockets inside the Racks and other accessories required for completion of work is deemed to be included in the quoted prices. This also includes Cable Channel/ Tray to be installed by the bidder in Equipment Room/Control room as per requirement.	
8.49.7.	Category-6 UTP cable and associated accessories such Information Outlet, Patch Cords, Patch Panel, Terminations, Cable Management Panel, etc. shall be used for provision of LAN.	
8.49.8.	All Terminating connectors, line units and accessories for OF cable shall be supplied and installed as per site requirements.	
8.49.9.	All cable incoming and outgoing from any Rack/device shall be appropriately numbered and marked for easy identification	
8.49.10	Networking accessories such as Jack/Patch panel, Mounting rack, face plate, mounting cord & connecting cables, Information outlets, modules and connectors etc. as required for the complete network design shall be supplied and installed by the bidder within the quoted cost.	
8.49.11	Patch Cords	
i.	Push & pull design with latch.	
ii.	Shall be wired straight through.	
iii.	Bend relief compliant boots to ensure proper Cat 6 performance.	
8.49.12	Patch Panel	
	a) Conform to EIA standards.	
	b) Have Port identification numbers on both front and rear of the panel.	
8.50.	Licenses:	

8.50.1.	Video Management System, Video Recording, and Video Analytics Software shall be supplied, installed, configured and integrated with the existing system. The integrated system shall be tested, and commissioned for use after successful Site Acceptance Testing.	
8.50.2.	For Operating System Software, CCTV Software (VMS, VRS, VAS), and Other required software, if any, contractor shall provide appropriate licensing (Per CPU/User/Device) in compliance with respective OEM policy.	
8.50.3.	All Hardware system/component and Software supplied by bidder shall be licensed, as applicable, in favour of Airports Authority of India and valid for lifetime of the offered system.	
8.51.	HDPE Pipe	
	Material grade and pressure rating: PE-63 and PN-6 respectively Outer diameter 32 mm, Inner diameter 26-27.4 mm Wall thickness 2.3-3 mm	
8.52.	GI Pipe	
	ISI marked GI pipe (Class B) of nominal bore of minimum 80 mm shall be laid wherever road crossings are encountered on the route as well as on wall/floor crossings in a building. Contractor shall supply and install all necessary accessories as part of the installation work.	
	Proper arrangements shall be made to seal the ends of GI pipe after installation and drawing of cables.	
	The quoted unit rate for the supply of GI pipe shall include all required accessories (sockets, joints, brackets, clamps etc.) and material (cement, sand, chips etc.). The quoted unit rate for the installation of GI pipe shall inter-alia include all related works/activities including installation of hardware and accessories (sockets, joints, brackets, clamps etc.), fixing arrangement and concreting required for GI Pipe installation at road crossings, etc. encountered on the route as well as on wall/floor crossings in a building.	
8.53.	Cables	
8.53.1.	All cables used for the project shall be supplied as under: a) ISO certified reputed cable manufacturer as per preferred makes. b) Conform to ISI/ISO/IEC/BIS or better standards. c) Network cables shall be of high bandwidth, low attenuation and low losses in signal quality.	
8.53.2.	Backbone Network up to Switches (L3 Switches to L2 Switches): OFC	

8.53.3.	From Switches to each node (L2 Switch to Servers, Workstation, Cameras, Displays etc.): UTP Cat 6	
8.54.	CAT 6 UTP Cable	
	High performance data communication cable for noisy environment.	
	Suitable for high speed data applications, Gigabit Ethernet.	
	4 pairs, standard colour-striped, unshielded twisted pair cable	
	23 AWG Solid bare CopperConductor	
	High density PolyethyleneInsulation, PVC/LSZHSheath	
	Termination of 4 pair balanced twisted pair copper cable.	
	Shall be wired straight through.	
8.55.	3 Core Power Cable	
	3 Core 1.5 sq mm multi-strand copper conductor PVC insulated PVC sheathed power cable shall be supplied and laid as per IS Specifications for such LV cables.	
8.56.	RJ 45 Termination box with Modular patch cable	
A.	RJ45 IO shall be:	
	Of Polycarbonate housing of appropriate rating	
	Available with flexible locking tabs	
	Accept solid 22-24 AWG diameter conductors	
	Use strain relief mechanism to simplify and reduceinstallation time protecting the quality of the termination simultaneously.	
	The termination cap shall provide strain relief on the cable jacket, ensure cabletwists are maintained	
B.	The modular patch cord shall be:	
	Provided with strain relief boots with a latch guard or a one-piece,tangle free latch design to protect plug latch from snagging when pulling cords.	
	Compatible with both T568A and T568B wiring schemes	
	Factory assembled cords made out of stranded cableand should be 100% tested to 250 MHz.	
	Made using excellent plug-to-cable strain reliefwithout causing pair deformation.	
8.57.	Excavation in Soft/Hard Soil & Road Cutting	
	Excavation in Soft/Hard Soil with the required depth up to 75 cm & Backfilling, as per specifications:	
	The contractor is required to dig the earth up to 75 cm for underground laying of cables, wherever required. The contractor shall resurface the road/earth same as earlier, as per industry standards with sand cushioning and Brick protection. Road Cutting with the required depth	

	up to 40 cm and Backfilling shall be done as per industry standards and making good as per finish with cement & concrete.	
8.58.	Installation, Integration, Testing, and Commissioning	
8.58.1.	All equipment supplied shall be installed, integrated, tested and commissioned as per applicable OEM standards and standard industry practices.	
8.58.2.	Integration, configuration, and testing with the existing systems shall be responsibility of the contractor.	
8.58.3.	Installation works includes all accessories required for completing the system installation, testing and commissioning. Cost of the same is deemed to be included in price bid offer.	
8.58.4.	Contractor shall be responsible for supply & installation of appropriate support structure/mounting frame for all equipment as required.	
8.58.5.	Contractors shall not outsource any part of the contract to any other vendor/third party contractor without prior permission of AAI.	
8.58.6.	Liability, if anything, arising out of such third party contracts to any other vendor by contractor shall be to the contractor's account.	
8.59.	Training	
8.59.1.	Operation, Maintenance and System Administration Training	
	Contractor shall provide operation, maintenance and system administration training for minimum FIVE trainees nominated by AAI, The training shall be designed and structured so that on successful completion of the training the participants shall be able to understand and perform:	
	Basics of SCCTV System.	
	System setting up and Configuration of offered system from Scratch. Installation procedures for system hardware & software, configuration recovery, reloading of software drivers/modules of operating system and application software.	
	Configuration, optimization and alignment of the system with the help of the documents and software supplied along with the equipment/system.	
	Breakdown maintenance of the system.	
	Fault isolation up to Module level using diagnostic tools and general purpose test equipment,	
	Preventive maintenance of the system.	
8.60.	Documentation	

8.60.1.	Contactor shall supply two sets each of Operations, Technical and Maintenance manual, etc. (soft copy and hard copy)	
8.60.2.	All manuals and documents shall be in English language and in such a way that a qualified engineer/technician is able to fully understand and do the preventive as well as breakdown maintenance with the help of these manuals.	
8.60.3.	The Technical and Maintenance manual will cover:	
	i) General technical description and theory of operation	
	ii) Block diagram of complete system	
	iii) Servicing/Maintenance instructions including preventive maintenance schedule	
	iv) Fault analysis and repair	
	v) Installation procedures for software, configuration recovery, reloading of software modules of application software.	
	vi) Technical & operational manuals	
	vii) Maintenance manuals	
	viii) Maintenance and System Administrative procedures.	
8.60.4.	Contactor shall supply two sets of as-built drawing (Hard/Soft copy) indicating:	
	<ul style="list-style-type: none"> • CCTV Layout drawing (A3 size) • Bill of Materials including cables (A4 size) • Cable connectivity drawings (A3 Size) • Power distribution scheme (A4 size) • Specifications and data sheet for each item (A4 size) • List of software and software licenses,(A4 size) 	
9.	General	
9.1.	The offered equipment by the bidder shall be compact, fully solid state, highly reliable and shall use latest state of the art technology.	
9.2.	The design and selection of the offered equipment by the bidder shall be consistent with the requirements of long term trouble free operation with highest degree of reliability and maintainability.	
9.3.	All offered equipment by the bidder shall be manufactured to continuously operate safely without undue heating, vibration, wear, corrosion, electromagnetic interference or any similar problems.	
9.4.	The offered equipment by the bidder shall be designed for continuous operation (24-hours a day and 365-days a year). The design life of the equipment shall be a minimum of SIX YEARS.	
9.5.	This life shall be achievable through normal and regular maintenance.	

9.6.	All types of spares and spare modules of the offered equipment shall be readily available with the bidder during life-time of the equipment, for maintenance, repairs and up keep of the equipment during warranty & CAMC period, if applicable.	
9.7.	Offered equipment by the bidder shall undertake and ensure implementation of its offered solution and shall keep its in view the safety and protection of personnel, during normal operation and maintenance or during malfunctioning of any equipment or its sub-component. This shall be ensured as an integrated feature of design, manufacture and installation of offered equipment by bidder.	
9.8.	Offered equipment by the bidder shall ensure adequate protection to be included for ensuring safety of personnel from any possible hazards, including EMI radiation, high voltages, etc.	
9.9.	The offered equipment by the bidder shall furnish the details of EMI and Safety Standards met by his equipment and built-in safety features.	
9.10.	The offered equipment shall be constructed on a modular basis, using plug-in type units and components to the extent possible. Parts subject to failure, wear, corrosion or other deteriorations or requiring occasional inspection, adjustment or replacement shall be made accessible and capable of convenient inspection and removal.	
9.11.	Input and output termination cables in offered equipment shall be properly labelled to permit ready identification of the incoming/outgoing wiring.	
9.12.	All interconnecting cables in offered equipment shall also be appropriately labelled to facilitate convenient interconnection and minimize chances of incorrect connection.	
9.13.	All connecting cables required to inter-connect the equipment shall be supplied by the bidder as a part of the offered system. All cables shall be fully assembled, connector pre-terminated and factory tested at the time of supply as part of overall system check.	
9.14.	Mains Power Supply: Complete offered equipment shall operate with an un-interrupted AC power 230 Volts ($\pm 10\%$) single phase 50 Hz $\pm 5\%$. Contractor shall provide reliable over & under voltage and over current protection circuits in the power supply units of offered solution. The power supply units in complete offered solution shall be self-protecting, and shall protect connected equipment against conducted interference, noise, voltage dips and surges & impulses.	
9.15.	Mains Power Supplies used in offered solution/equipment shall be rugged enough to withstand variation in mains voltage and frequency	

	over a long period of time so that the failures in the equipment due to power supply are minimized.	
10.	Quality Assurance Standards	
10.1.	The contractor shall use Quality Assurance procedure compliant with Quality Assurance in system design, development, manufacturing, and installation and servicing- ISO 9001 Quality Management and Assurance Standards Part 3 – ISO 9001 Application and Development, Supply and Maintenance of software.	
11.	Reliability	
	To ensure high availability and high reliability, the equipment design offered by the bidder and its OEM partner shall employ the most suitable engineering techniques, materials and dependable components, field proven design and rigorous inspection during manufacturing to ensure a very high MTBO (Mean Time between Outage) and MTBF (Mean Time between Failure) of equipment.	
12.	Environmental Conditions	
12.1.	The offered equipment shall be capable of maintaining its guaranteed performance when operating continuously for 24 hours a day and 365 days a year without any deviation in quality or degradation of system performance and all the parameter detailed in these specifications shall be guaranteed over the following environmental conditions:	
12.2.	i) Indoor Equipment: Operating Temperature: 0 deg. to +40 deg. Centigrade. Relative Humidity: 80% up to 35 deg. centigrade.	
12.3.	ii) Outdoor Equipment: Operating Temperature: -10 deg. to +50 deg. Centigrade Relative Humidity: 90% up to 35 deg. centigrade	
12.4.	Storage Temperature: -10 to + 70 degree Centigrade	
13.	Procedure to be followed by the Tenderer after award of work	
13.1.	Contractor, on award of work, shall contact the AAI Engineer-in-Charge & execute agreement on non-judicial stamp paper of appropriate amount.	
13.2.	Contractor shall obtain site schematic/drawings and finalize camera locations/mount type, as per zone of coverage required. Contractor shall also survey cable route at site and finalize networking layout.	
13.3.	A work-schedule chart/bar-chart indicating the time schedule for commencement of various activities of work like inspection & delivery of materials, commencement of work, completion of work, etc. required	

	for the execution & timely completion of work shall be submitted by the tenderer to the Engineer-in charge for approval within fifteen days of the date of acceptance of the tender.	
13.4.	It shall be the responsibility of the contractor to adhere to this work-schedule and complete the work in the specified time. Any deviation from this schedule, for any reason, shall be brought to the notice of the Engineer-in-Charge immediately to enable the Engineer-in-Charge take corrective action for achieving the timely completion of work. Failure to submit the work schedule chart within the specified time or meeting the various committed deadlines shall be treated as delay on the part of the tenderer and shall be dealt as per Conditions of Contract unless the said work is completed in the scheduled time.	
13.5.	Contractor shall at all times, during the period of execution of works keep in mind the specified completion time and other terms & conditions of contract as specified in the NIT which is, and shall remain the essence of the contract.	
13.6.	On completion of the installation, Contractor shall conduct a system acceptance test. Contractor shall rectify any deficiencies encountered during the acceptance tests, at no additional cost to AAI.	
14.	Inability to perform contract	
14.1.	Should the contractor's preparation for the commencement of the work, or any portion of it or his subsequent rate of progress, be from any cause whatsoever, so slow that in the opinion of the AAI, the contractor will be unable to complete the work or any portion thereof as agreed upon, or should he not have the work ready for delivery in conformity with the contract or should he neglect to comply with any directions given to him by AAI, or in any respect fail to perform the contract at the end, in which case the contractor shall be liable for any expenses, loss or damage which the purchaser may incur or sustain by reason of, or in connection with the contractor's default.	
14.2.	In case of poor work performance/maintenance, AAI shall terminate the contract by giving one month notice and PBG shall be forfeited. Any defects shall be rectified at contractor's risk & cost.	
15.	Services to be provided by AAI	
15.1.	Space/Working Area for the contractor's workmen shall be provided by AAI, free of cost and as per availability. Free electricity for work related activities and water shall be provided. Electric supply at 230/415 V + 10%, A.C., Single phase/3 phase, 4 wire 50 Hz, if required, for works shall be made available at one point by the	

	Authority at the site of work. The contractor shall provide all necessary connections, cable, fittings, etc. from the main switch onwards, in order to ensure a proper and suitable supply of electricity for the execution of work. AAI does not guarantee continuity of supply and no compensation whatsoever shall be allowed for supply becoming intermittent or for breakdown in the system.	
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DECLARATION:

The terms and conditions given in Section C Part A given in the Tender Document are read, understood and hereby accepted unconditionally and shall be complied with. I/We agree to abide by the condition and guidelines of Section C Part A, contained in this section of Tender Document and shall form part of contract conditions and provisions. I/We hereby unconditionally accept(s) these condition and guidelines of Section C Part A of AAI's tender documents in its entirety for the work **"Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport"**.

It is certified that all the equipment shall be as per Statement of Work and its Technical requirements specified in this Section C. It is certified that I/we have not stipulated any condition(s) in our tender offer. In case any condition(s) are found in our tender offer, the same shall be treated as withdrawn.

Signature of Bidder Firm Authorized Signatory

Pr Name:

On behalf of:.....

Firm's Stamp:

ANNEXURE- I

Proforma for Acceptance Letter Undertaking

(Original to be submitted to Bid Manager and copy to be submitted with Fee Bid “Envelope I”)

To,

Jt. General Manager (Airport Systems)
Airports Authority of India
Admin. Building, Chennai Airport
Chennai-600 027

Subject: Acceptance Letter Undertaking – Tender No.2018_AAI_

Name of work: **Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport”.**

Sir,

Having examined the conditions of contract and specifications including addenda, I/We, the undersigned, offer to undertake Tender No. 2018_AAI_6786_1 for “Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport”, in conformity with the specifications, terms and conditions of Tender.

1. I/We agree to abide by the terms and provisions of the said conditions of the contract and provisions contained in the notice inviting tender and Price Bid. I/We hereby unconditionally accept the tender conditions of AAI’s tender documents in its entirety for the above work. It is certified that I/we have not stipulated any condition(s) in our bid offer. In case any condition(s) are found in our tender offer, the same may be treated as withdrawn.
2. Electronic Bid response submitted by us is prepared as per the tender document and

Signature of Bidder:

submitted on CPP e-procurement tender portal.

3. We understand that AAI is not bound to accept the lowest or any bid. AAI may change, at its discretion tendered quantities maximum by ± 50 percent.
4. I/We hereby submit the earnest money of INR _____ for the tender for the above mentioned work.
5. That , I/We declare that I/We have not paid and shall not pay bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of AAI asks for bribe/gratification, I shall immediately report it to the Appropriate Authority in AAI.
6. That, I/We undertake that AAI's tender document shall form part of contract agreement.
7. We understand that only the Prices quotes available to AAI as made by us during Reverse Auction and on opening of Price Bid at e-procurement CPP Portal (without conditions and options) shall only be taken for Price Comparison.
8. We also undertake that we are offering only make and model of Hardware & Software solution in conformity to Make, Model, Type, Quantity and Quality of the equipment against the Tender Technical Specifications, for which compliance statement is submitted for perusal, and have quoted Prices on e-procurement CPP Portal for the same.
9. Bid submitted on e-procurement CPP Portal are as per the instructions contained in Section A, B & C of Tender, and we also understand that if it is found to be contrary our Bid offer stands summarily rejected by AAI.

Thanking you,

Yours faithfully,

Dated:

Signature of the bidder

Name: _____

Telephone: _____

Fax: _____

E-mail: _____

Stamp: _____

Witness:

Signature:

Address:

Signature of Bidder:

Note: This duly filled and signed undertaking shall be submitted in original to Bid Manager and copy to be submitted in the “ENVELOPE –I” without which the bid of the bidder firm shall be liable for rejection.

Power of Attorney Proforma for the Authorized Person(s)

(Bidder shall submit irrevocable power of attorney on a company Letterhead signed by authorized signatory as per Memorandum of Articles authorizing the persons, who are signing this bid on behalf of the company)

POWER OF ATTORNEY

BY THIS POWER OF ATTORNEY executed on _____ we _____, a Company incorporated under the provisions of companies Act, 1956 having its Registered Office at _____ (hereinafter referred to as the "Company") do hereby severally appoint, constitute and nominate _____, official(s) of the Company, so long as they are in the employment of the Company (hereinafter referred to as the "Attorneys") to sign agreement and documents with regard Bid No. _____ due on _____ invited by Airports Authority of India, Admin. Building, Chennai Airport, Chennai – 600 016, for **"Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport"** and to do all other acts, deeds and things the said Attorneys may consider expedient to enforce and secure fulfilment of any such agreement in the name and on behalf of the Company.

AND THE COMPANY hereby agrees to ratify and confirm all acts, deeds and things the said Attorneys shall lawfully do by virtue of these authorities hereby conferred.

IN WITNESS WHEREOF, this deed has been signed and delivered on the day, month and year first above written by Mr. _____ Authorized Signatory, duly authorized by the Board of Directors of the Company vide it's resolution passed dated _____ in this regard.

By order of the Board

For _____

(_____)

Authorized Signatory

Witness:

- 1.
- 2.

Attorney Signature of Mr _____

Attorney Signature of Mr _____

(Attested)

(_____)

Authorized Signatory

Signature of Bidder:

Proforma for Fee Bid Check-List

(To be submitted with Fee Bid “Envelope I”)

Name of work: Upgradation/expansion of SCCTV System for additional zone coverage at
Chennai Airport

1.	Bidder Agency Name: Postal Address: Tel./Fax No. and e-mail address of the bidder	_____ _____ _____ _____ _____
2.	Authorized Signatory (Name, Designation and contact details).	Name: _____ Designation: _____ Agency: _____ Address: _____ _____ Phone: _____ FAX: _____ Email: _____
3.	Has the bidder submitted Tender Fee as per Para 1.3 at Page No. 3 of the Tender Document?	DD No. _____ Date: _____ Bank: _____ Amount: _____
4.	Has the bidder submitted EMD as per Para 1.4 at Page No. 3 of the Tender Document?	DD No. _____ Date: _____ Bank: _____ Amount: _____
5.	Has the bidder submitted valid NSIC/MSME registration certificate, in case Tender Fee & EMD Exemption claimed?	NSIC/MSME registration certificate submitted (as applicable). (Copy enclosed at Page No. _____)
6.	Has the bidder submitted Tender Undertaking Letter as per Annexure-I ?	Undertaking as per Annexure-I is enclosed (Page No. ____).

7.	Has the bidder submitted Power of Attorney for Authorized Signatory, as per Annexure-II ?	Copy of Power of Attorney as per Annexure-II is enclosed (Page No. ____).
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I (_____) hereby declare that the information as stated above and the supporting documents uploaded are true and correct. In case any information/document is found fake/incorrect at any stage, the EMD may be forfeited and action as deemed fit by AAI can be taken against me.

Place:

Signature:

Date:

Authorized Signatory of the bidder

Signature of Bidder:

Proforma Check-List to be submitted by the Bidder along with PQ/Technical Bid (Envelope- II)

Name of work: **Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport**”.

1.	Has the bidder submitted undertaking for tender clause 1.8.6 (Page 4) as per Annexure- V?	Undertaking as per Annexure-V is enclosed (Page No. _____).
2.	Has the bidder submitted credentials as registered firm(Articles of Memorandum of Association or Partnership Deed, or Proprietorship Deed, Certificate of Company Registration, PAN, GST, as applicable)	Credentials submitted (Page No. _____) PAN: _____ GST: _____
3.	Is the bidder a registered firm in India or in any other country?	Bidder firm is registered in India or _____ (Specify Country)
4.	Has the Bidder submitted Certificate from Chartered Account certifying annual financial turnover and certified copies of audited balance sheets along with Profit & Loss Account?	Certificate from Chartered Account and certified copies of audited balance sheets submitted (Page No. _____)
	Year 2014-15	Rs. _____
	Year 2015-16	Rs. _____
	Year 2016-17	Rs. _____
	Average	Rs. _____
5.	Has the bidder attached declaration/undertaking as per Annexure- VII/VIII?	Declaration/Undertaking as per Annexure-VII/VIII enclosed (Page No. _____)
6.	Experience details as per Notice Inviting Tender Clause 1.8.1 (Page 4)	
6.1	Work No. 1	
6.1.1	Name/Scope of work	
6.1.2	Name and Address of the organization/department where work has been executed	
6.1.3	Contract Value	
6.1.4	Date of start	
6.1.5	Date of completion (Stipulated)	
6.1.6	Date of completion (actual)	
6.1.7	Completion cost	
6.1.8	Purchase/Work Order	Copy enclosed (Page No. _____)
6.1.9	Work Completion Certificate	Copy enclosed (Page No. _____)

6.1.9	Satisfactory Performance Certificate	Copy enclosed (Page No. ____)
6.1.10	Whether the work experience from Govt. Organizations or private client?	In case the work experience of private client, TDS certificate from the respective client is enclosed (Page No. ____)
6.2	Work No. 2	
6.2.1	Name/Scope of work	
6.2.2	Name and Address of the organization/department where work has been executed	
6.2.3	Contract Value	
6.2.4	Date of start	
6.2.5	Date of completion (Stipulated)	
6.2.6	Date of completion (actual)	
6.2.7	Completion cost	
6.2.8	Purchase/Work Order	Copy enclosed (Page No. ____)
6.2.9	Work Completion Certificate	Copy enclosed (Page No. ____)
6.2.9	Satisfactory Performance Certificate	Copy enclosed (Page No. ____)
6.2.10	Whether the work experience from Govt. Organizations or private client?	In case the work experience of private client, TDS certificate from the respective client is enclosed (Page No. ____)
6.3	Work No. 3	
6.3.1	Name/Scope of work	
6.3.2	Name and Address of the organization/department where work has been executed	
6.3.1	Name/Scope of work	
6.3.2	Name and Address of the organization/department where work has been executed	
6.3.3	Contract Value	
6.3.4	Date of start	
6.3.5	Date of completion (Stipulated)	
6.3.6	Date of completion (actual)	
6.3.7	Completion cost	
6.3.8	Purchase/Work Order	Copy enclosed (Page No. ____)
6.3.9	Work Completion Certificate	Copy enclosed (Page No. ____)
6.3.9	Satisfactory Performance Certificate	Copy enclosed (Page No. ____)

Signature of Bidder:

6.3.10	Whether the work experience from Govt. Organizations or private client?	In case the work experience of private client, TDS certificate from the respective client is enclosed (Page No. _____)
6.3.11	Bidder has to supply the items within Ten Days from the date of award of work. Since the work has to be completed on priority basis at the site.	Yes/No (Signature of Bidder)
6.3.12	The Bidder has to complete the entire work within Twenty (20) Days from the date of award of work.	Yes/No (Signature of Bidder)

I (_____) hereby declare that the information as stated above and the supporting documents uploaded are true and correct. In case any information/document is found fake/incorrect at any stage, the EMD may be forfeited and action as deemed fit by AAI can be taken against me.

Place:

Signature:

Date:

Authorized Signatory of the bidder

Proforma for Undertaking as per Tender Clause 1.8.6

[To be submitted with PQ/Technical Bid “Envelope II”]

To,

Jt. General Manager (Airport Systems)

Airports Authority of India

Admin. Building, Chennai Airport

Chennai – 600 027

Name of Work: Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport”.

Sub: Undertaking

Sir,

In compliance with the tender requirement for the above-referred work:

1. I/We undertake that, our firm or none of our firm’s Partners or Directors have been blacklisted or any case is pending or any complaint regarding irregularities is pending, in India or abroad, by any global international body like World Bank/International Monetary Fund/World Health Organization, etc. or any Indian State/Central Governments Departments or Public Sector Undertaking of India.
2. I/We undertake that, our firm or our subsidiary firm or our parent firm has not submitted alternate or partial bid(s).
3. I/We undertake that, our firm possess the required tools, plants, skilled manpower, etc. required for execution of work as per scope of the tender. I/We also undertake that no part of the scope of work shall be sublet or outsourced to any third party without written consent from AAI.
4. I/We undertake that, the complete responsibility to carry out the works and their completion as per scope of the tender shall be of our firm only.
5. I/We undertake that, our firm or its Partners or its Directors or Sole Proprietor do not have any outstanding dues payable to the Airports Authority of India.

Date:**Signature of the authorised signatory**

Name: _____

Stamp: _____

Signature of Bidder:

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Proforma for Original Equipment Manufacturer (OEM) or Authorization Declaration

(To be submitted with PQ/Technical Bid "ENVELOPE I")

To,
 Jt. General Manager (Airport Systems)
 Airports Authority of India
 Admin. Building, Chennai Airport
 Chennai – 600 027

Name of Work: **Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport**”.

Subject: Declaration/Undertaking regarding Original Equipment Manufacturer (OEM) or Authorized Representative (AR)/Indian Agent (IA) of OEM Bidder

Sir,

I/We, _____ (Manufacturer Name with Address) who are established and reputed manufacturer of _____ (Item Name) having factory at _____ (Address).

1. I/We are participating in the tender as OEM.

OR

2. I/We do hereby authorize _____ (Bidder Name with complete Address) to participate in this tender on behalf of M/s. _____ (OEM).

I/We confirm that the quoted equipment have not been declared end of life as of date of this tender, and we shall supply our products as per published tender specifications and bid offer.

I/We also confirm to provide Warranty and Post Warranty support for offered products, availability of product spares, sales, service and software as per this tender.

Thanking you,

Yours faithfully,

Dated:

Signature of the authorised signatory (OEM)

Name: _____

Telephone: _____

E-mail: _____

Stamp: _____

Signature of Bidder:

Proforma for Undertaking by System Integrator (SI) Bidder

(To be submitted with PQ/Technical Bid "ENVELOPE II")

To,
Jt. General Manager (Airport Systems)
Airports Authority of India
Admin. Building, Chennai Airport
Chennai – 600 027

Name of Work: **Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport".**

Subject: Undertaking by System Integrator (SI) Bidder

Sir,

I/We, _____ (Bidder Name with Address) are participating in the tender for the above named work, as System Integrator (SI).

I/We hereby certify that I/We have obtained Manufacturer Authorisation from respective Original Equipment Manufacturer (OEM) for products offered in our bid and same will be submitted to AAI, if demanded. Further, I/We undertake the complete responsibility to provide product(s) not declared obsolete or end-of-life by respective OEM as of date of this tender and I/We shall supply the quoted products as per published tender specifications and bid offer.

I/We also undertake to provide product spares, Hardware and Software Support services, including replacement of product(s), and Product Support from respective OEM, as required during the Warrantee period (Three Years).

Thanking you,

Yours faithfully,

Date:

Signature of the authorised signatory (Bidder)

Name: _____

Stamp: _____

Preferred list of makes

SL #	DESCRIPTION OF ITEM	PREFERRED MAKES
1.a	2 Megapixel IP Fixed Varifocal Indoor/Outdoor cameras, etc.	AXIS
		BOSCH
		DVTEL
		HONEYWELL
		INDIGO VISION
		INFINOVA
		PELCO
		SONY
		TYCO
		VERINT
		VICON
1.b	PTZ 2 Mega Pixel IP fixed Outdoor Dome Camera	INFINOVA
2.	SVMS/NVR/Video Analytics Software for Server/Client	AXIS
		BOSCH
		DVTEL
		GENETEC
		HONEYWELL
		INDIGO VISION
		INFINOVA
		LENEL
		MILESTONE
		NICE
		PELCO
		TYCO
		VERINT
		VICON
		VIDEONETICS
6.	Network Switches	AVAYA
		D-link
		Net gear
		CISCO
		Tp-link
		HP
		EXTREME/BROCADE
		JUNIPER
		ALLIED TELESIS
		ALCATEL LUCENT
7.	UPS	EMERSON
		NUMERIC
		APC
		DELTA
		APLAB
		BORI
8.	Equipment Rack	APW PRESIDENT
		COSMOS
		EMERSON
		GODREJ

		HCL
		SCHNEIDER
		TRESCO
		BELDEN
9.	UTP Cat-6 cable	DELTON
		FINOLEX
		MOLEX
		RPG
		STERLITE
		VALRACK
		BELDEN
		CLIPSAL
10.	3x1.5 sq.mm/8 sq.mm multi-strand unarmoured/ armoured power cable	DELTON
		FINOLEX
		MOLEX
		POLYCAB
		RPG
		SKYTONE
		STERLITE
		ISI MARKED
12.	MS Conduit/GI Pipe/HDPE Pipe	

Unpriced bill of material with Make & Model

[To be submitted by the bidder along with PQ/Technical Bid (Envelope II)]

Name of work: **Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport”.**

S. No.	DESCRIPTION (Items to be offered as per Preferred Makes& Tender Specifications)	QTY		UNIT	MAKE OFFERED	MODEL OFFERED
A	B	C	D	E	F	G
1.	2 MP Outdoor Colour Dome PTZ Camera	10	Nos.	Each	INFINOVA Only	VT-231-A230-A Series
2.	2 MP VarifocalOutdoor Colour Box/Bullet Fixed Camera	22	Nos.	Each		
3.	2 MP Varifocal Indoor Colour Dome Fixed Camera	12	Nos.	Each		
4.	8 Ch NVR with VMS, populated with min 4TB	7	Nos.	Each		
5.	24 Ch NVR with VMS, populated with min 4TB	1	Nos.	Each		
6.	32" Full HD LED Display monitor	6	Nos.	Each		
7.	55" Full HD LED Display monitor	1	No	Each		
8.	8 Port POE Switch, minimum 4 port POE	7	Nos.	Each		
9.	8 port Gigabit POE Switch , all port POE, rack mount	3	Nos.	Each		
10.	USB wired keyboard & Mouse	7	Nos.	Each		
11.	32 mm dia HDPE pipe	500	Mtrs.	Mtrs.		
12.	4"dia upto 5mtrs height GI Pole (Class B) with all accessories for mounting cameras	16	Nos.	Each		
13.	CAT 6 UTP data cable(305 mtr./box)	12	Box	Box		
14.	3 core 1.5 Sqmm Power Cable	600	Mtrs.	Mtrs.		
15.	RJ 45 CAT 6 IO face plate with back boxTermination box with patch cable	33	Nos.	Each		
16.	1" PVC conduit	2600	Mtrs	Mtrs.		
17.	600VA UPS with minimum 15 minutes backup	6	Nos.	Each		
18.	2 KVA UPS with minimum 30 minutes backup	1	No.	Each		
19.	9U/6U/4U wall mount rack	1/6/3	Nos.	Each		

All supplied accessories shall be of OEM/OEM recommended makes only.

PRICE BID

Instructions for filing Price Schedule on AAI E-Procurement Portal

TENDER NO. 2018_AAI_6786_1

Name of work: Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport".

- a) Details of Price Bid items are to be referred strictly as per the format provided in **Annexure-XII**.
- b) Rate for each item should be quoted by each bidder under respective Rate Cell.
- c) If any bidder does not write a quote against any item of Annexure-XII which shall be construed as cost is included in some other item & it is presumed free of cost to the AAI up to the destination including all Taxes and Duties, Freight and Insurance Charges, Customs Duty, GST/Handling Charges, etc. Any other taxes, permits, duties, levies, charges payable within or outside India in respect of such (supply/service) item/s shall be borne by the supplier and delivered to AAI at site.

PRICE BID MAY BE REFERRED ON CPP E-PROCUREMENT PORTAL

Item Wise Bill of Quantities

Name of Work: Provision of SCCTV system at vehicles access gates, air side bay and AAI kalyanamandapam at Chennai Airport".

PRICE SCHEDULE

Sl.No.	Description of item	Qty	Basic Rate	Unit	GST %	GST Value	Amount with GST
SH-I	CCTV Coverage for six Vechicle access Gates at air side						
A	Supply of Items:-						
1	Out door HD colour IP Fixed Bullet Camera 2MP WDR 1/2.8" or 1/3" or better progressive scan CMOS, Day/Night, Varifocal/motorized Lens, POE Support, 30Meter IR, IP 66, POE/12V/24VAC as per specifications	16		No			
2	8 Channel NVR with VMS, populated with minimum 4 TB, Support of ONVIF protocol as per specifications	7		No			
3	POE 8 Port Switch, minimum 4port POE, 2 with necessary accessories as required at site	7		No			
4	Supply of 32" Full HD LED display ,VGA & HDMI Input with wall mount accessories as required at site	6		No			
5	USB wired keyboard & Mouse	6		No			
6	Supply of 4 pair Cat6 UTP Cable ISI certified, 305 mtr/ box	2		Box			
7	Supply of 1" PVC Conduit ISI certified	400		Meter			
8	Supply of Cat6 IO, Face plate with Back box	12		NO			
9	Supply of 6U Rack with power manager, 3nos. 5 AMP Socket, Lock & Key and necessary Accessories as required at site	6		NO			
10	Supply of 600VA UPS	6		NO			

Signature of Bidder:

11	Supply of 4" dia upto 5 mtrs. Height GI pole (class B) with accessories for mounting of cameras as per specifications	16		NO			
B	Fixing/Laying /Installation of items:-						
12	Fixing/Laying of 1" PVC conduit on wall/surface,etc.,with necessary accessories as required at site inclusive of fixtures)	400		Meter			
13	Laying of CAT 6 UTP cable on wall/surface/ceiling through 1"PVC conduit with accessories as required at site	600		Meter			
14	Laying of CAT 6 UTP cable I through hard soil/road cutting through class B GI pipe, 1" by digging to a depth of 2 feet and bringing back to normal position/cement etc.,as required at site	60		Meter			
15	Fixing/Erection of pole on hard soil /cement floor along with necessary base mounting brackets/bolt & nuts, civil work (if required) , etc., with necessary accessories required as required at site	16		No			
16	Installation of 6U Rack on wall surface with necessary suporting clamps & screws, bolt/nuts ,etc., as required at site	6		No			
17	Fixing & termination of CAT 6 IO boxes with necessary accessories as required at site	15		No			
18	Installation,Testing & commissioning charges of CCTV system at six vehicle access gates including fixing of cameras, termination as required at site	1		Lot			
	Sub Total SH-I						
SH-II	CCTV Coverage for Apron bays & movement areas						
C	Supply of Items:-						
1	Make : INFINOVA Outdoor IP PTZ Camera, 1/1.9" progressive CMOS, Day/Night switch ICR , IR illumination distance minimum 200 m or better, inbuilt optical 30X, HD as per specifications	10		No			

Signature of Bidder:

2	Supply of 4 pair Cat6 UTP Cable ISI certified, 305 mtr/ box	3		Box			
3	Supply of 1" PVC Conduit ISI certified	1000		Meter			
4	Supply of ISI certified Three Core Flexible multi strand 1.5 Sq.mm Power cable	600		Meter			
D	Fixing/Laying /Installation of items:-						
5	Laying of CAT 6 UTP cable on Tray/wall/surface/celling through 1"PVC conduit with accessories as required at site	900		Meter			
6	Laying Power cable 2.5mm on surface/wall /false ceiling or terrace through 1" PVC conduit as required at site	600					
7	Fixing/Laying of 1" PVC conduit on wall/surface,etc.,with necessary accessories as required at site Inclusive of fixtures)	1000		Meter			
8	Installation, Testing and Commissioning charges of above PTZ cameras including fixing of cameras at bays, termination, etc., as required at site and integration with existing terminal building CCTV system	1		Lot			
	Sub Total SH-II						
SH-III	CCTV Coverage for AAI Kalayana Mandapam at AAI residential colony						
E	Supply items						
1	Indoor HD colour IP Fixed Dome Camera 2MP WDR 1/2.8" or 1/3" or better progressive scan CMOS, Day/Night, Varifocal/motorized Lens, POE Support, IR illumination distance minimum 30m or better, IP 66, POE/12V/24VAC as per specifications	12		No			
2	Out door HD colour IP Fixed Bullet Camera 2MP WDR 1/2.8" or 1/3" or better progressive scan CMOS, Day/Night, Varifocal/motorized Lens, POE Support, IR illumination distance minimum 30 m or better, IP 66, POE/12V/24VAC as per specifications	6		No			

3	24 Channel NVR with VMS, populated with minimum 4 TB, Support of ONVIF protocol as per specifications	1		No			
4	8 Port Gigabit POE Switch , rack mount, with necessary accessories	3		No			
5	Supply of 9U Rack with Power Manager, 4 X 5 Amps Socket, 24 port cat 6 patch panel , Lock & Key necessary accessories as required at site	1		No			
6	Supply of 4U Rack with Power Manager, 2 X 5 Amps Socket, Lock & Key necessary accessories as required at site	3		No			
7	Supply of 4 pair Cat6 UTP Cable ISI certified, 305 mtr /box	7		Box			
8	Supply of 2KVA UPS with 30 minutes backup	1		No			
9	Supply of Cat6 IO, Face plate with Backbox, ISI certified	21		No			
10	Supply of 1" PVC Conduit, ISI Certified	1600		Meters			
11	Supply of 32 mm ISI certified stress Crack Resistance PE100 HDPE Pipe	500		Meters			
12	Supply of 55" Full HD LED display ,VGA & HDMI Input with wall mount accessories as required at site	1		No			
13	USB wired keyboard & Mouse	1		No			
F	Fixing/Laying /Installation of items						
14	Laying of CAT 6 UTP cable on wall/surface/ceiling through 1"PVC /HDPE conduits with accessories as required at site	2100		Meter			
15	Fixing/Laying of 1" PVC conduit on wall/surface,etc.,with necessary accessories as required at site Inclusive of fixtures)	1600		Meter			
16	Fixing /Laying charges of 32 mm PE100 HDPE pipe on wall including fixtures	500		Meter			
17	Installation of 9U Rack on wall surface with necessary supporting clamps & screws, bolt/nuts ,etc., as required at site	1		No			

Signature of Bidder:

18	Installation of 4U Rack on wall surface with necessary supporting clamps & screws, bolt/nuts ,etc., as required at site	3		No			
19	Soft soil by digging to a depth of 2 ft.and refilling/resurface	200		Meter			
20	Installation , Testing and Commissioning Charges of Kalayana mandapam CCTV system including cameras, NVR installations & cable/connector termination and other necessary accessories as required at site.	1		Lot			
	Sub Total SH-III						
	Grand Total(SH-I+SH-II+ SH-III)						

Note1 : Bidder has to download & quote the rate as per the Schedule of quantity given in the form of Microsoft excel file (.xls)

Note2 : In case of any ambiguity in words and digits (Basic rate in words shall be taken as offered unit price)

Signature_____

Name of the Agency _____

Name & Address of the Tenderer _____

Office Seal _____ **Date**_____

Signature of Bidder: