

SPECIFICATIONS FOR CCTV SYSTEM FOR ECLSS/HSFC, DEVANAHALLI	
Sl.no	General Requirements
1	Introduction
1.01	The CCTV Surveillance systems are required to be installed & deployed at ECLSS, HSFC. The number of cameras and their locations are chosen to cover the full periphery compound wall, all the operational / equipment areas, entry/ exit areas and important & vital areas. The system is intended to work on 24x7 basis on all the 365 days of the year.
1.02	The scope of this tender is for supply, installation and commissioning of cameras, and related network, electrical, Server, software and other installations. The supply, installation and integration shall be implemented as a total turn-key solution as per the requirements specified in tender document.
2	Scope of Work
2.01	Vendor has to consider the all the items in BOM (Annexure-B) required for realization of fully functional IP-based integrated security system at ECLSS, Devanahalli campus of HSFC/ISRO. For the items marks " *** ", the quantity is indicative and payment will be made on actual quantity used. Any other item/items required for the completion of the project can be listed separately, along with their technical details, price and use in detail as a separate list along with the offer BOM. The solution shall be completed in every aspect as per the requirement, installed in full and demonstrated to the HSFC/ISRO for acceptance of the system.
2.02	For all the licensed Software products, required licenses shall be submitted with appropriate authorization. Vendor shall be responsible for the updates /renewal of such licenses during warranty period.
2.03	For each item, relevant industrial standards need to be followed at the time of Installation.
2.04	Vendor may plan for a site visit to estimate the quantum of work during bidding process for the better understanding of the scope of implementation. With two days advance notice to the Purchase department, the Vendor could visit the site from Monday to Friday except Holidays. No visit shall be entertained after the last date for bid submission.
2.05	Vendors have to provide complete configuration / architecture design diagrams with required items in quote for the total solution. The offer which fails to provide the configuration diagram is liable for rejection in the technical evaluation process.
2.06	The final configuration drawings shall be duly signed by HSFC Officials before starting the supply & installation along with Purchase order.
2.07	All Active and Passive elements to be demonstrated before acceptance of the system.
2.08	All equipment should have Indian standard 3 pin plug tops for main power connection

2.09	Installation of cameras, network, recording and commissioning shall be done as per the guidance of concerned Engineer of HSFC at Bangalore. The building layout and other details will be shared only with the successful bidder, to maintain the confidentiality of the project. In case of any defects arise during installation due to improper installation practices, by vendors/ their representatives, the same have to be replaced / rectified free of cost. All accessories required to complete the installation is the responsibility of the vendor.
2.10	As the complete project is on Turnkey basis , vendor has to understand the scope of work prior to submitting the offer. It may also be noted that the whole BOM (Annexure-B) (Products/Services) has to be offered from the vendor, partial offers will be liable for rejection.
3	Pre-Qualification Criteria
3.01	Previous experience with proof: Details about IP based CCTV Systems installation of similar nature (with indoor & outdoor cameras, VMS, Storage, etc) along with AMC order for the same system after Post Warranty Completion carried out by the vendor within past Five years (of value above Rs. 1.5 crore or higher in a single order; limited to Supply & Installation of CCTV System) Minimum 2 purchase orders along with installation certificate duly signed by the end user to be enclosed to ascertain the expertise in this area in any Govt of India/PSU Establishments. Proof for installation, commissioning and maintenance of the same shall also be produced along with technical bid as well as end customer information i.e., Establishment Name, End User, Email Address
3.02	Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority of Govt of India. The proof of registration to be attached with the tender.
3.03	The Vendor shall have a local office in Bangalore to offer onsite support during the Warranty and post warranty period. Details of Local Office with registration details to be furnished.
3.04	Vendor should be an ISO certified company (Certificate to be provided)
3.05	The Bidder must have certified Engineers skilled in VMS and CCTV Product Implementation (Valid Authentic Certificate from Respective OEM being quoted is to be provided)
3.06	The bidder must be a Registered Corporate/Firm in India Registered under the Companies Act 1956/2013 or Indian Partnership 1932 Act or a Government Organization. (Certificate to be provided)
3.07	OEMs should have Local Service centres in India preferably in Bangalore and dedicated 24x7 Helpline Numbers in India, vendor to provide details of the support centres for hardware & software items including IP Based CCTV System, Network Switches, Cameras, Servers, Software and Workstations etc.
3.08	Vendor shall provide authorization (OEM) letters/ certificates for supply and service from manufacturer for hardware & software items including IP Based Audio System, Network Switches, Cameras, Servers, Software and Workstations etc, OEM to clearly mention the credentials of the account manager i.e., Name, Designation, Email Address details for validation of Authorization

3.09	Vendor shall provide OEM certificate/letter for service support during standard warranty period
4	Evaluation
4.01	The terms of the contract are for 'Supply, Installation and Commissioning by vendor' and 'Acceptance by user' at ECLSS Facility of HSFC/ISRO at Devanahalli, Bangalore.
4.02	Vendors to provide data sheets along with website link for validation of technical compliance for all items related to supply components, offers which are submitted without the relevant data sheets and manufacturer website links for the individual products are liable to be considered as a noncompliance and will be rejected.
4.03	In case the documentation file size with regard to data sheets / supporting documents exceed 10MB the same can be sent via speed post to our Purchase Section @Human Space Flight Centre, ISRO HQ Campus, New BEL Road, Bangalore, 560094 as a soft copy in a CD / Pen Drive well before the last date of submission.
4.04	Vendor should carefully consider all the clauses in the specifications and should ensure that their offer is complete in all respects at the time of submission. The compliance to the specification must be provided as per the template attached in PDF format. Complete technical documentation justifying the compliance should be enclosed along with their offer. Offer which is incomplete are liable to be considered as a non-compliance and will be rejected.
4.05	During the Technical evaluation process, the vendor should be ready to demonstrate the capabilities of their offered products to the HSFC/ISRO authorized officials, if required.
4.06	Vendor shall provide the timeline for supply, installation and commissioning of the complete CCTV systems. Diagram of the cable routing to be provided prior to starting the installation.
4.07	Pro forma for Technical Compliance Statement: For each item, apart from the Make and Model, the supplier shall provide a Technical Compliance Statement mentioning HSFC specified technical features on the left side and features available to the offered product on the right side, as per the format enclosed as Annexure-A . In case of any deviation (may be superior or inferior), the
4.08	The required quantities are mentioned in the BOM Annexure-B . Bill of materials is indicative only. Any other accessories / components items required for commissioning the CCTV system should be included and quoted by the vendor as separate list with BOM. The vendor should indicate the Make, Model, Technical specifications, price and use of the item in detail for the additional items offered.
4.09	Vendor shall provide item wise price breakup
4.10	Vendors should provide the list of deliverables required for total integrated system solution (should include all items as per technical & commercial bid)
4.11	Payment terms: Vendor should clearly mention their payment terms for supply and services.
4.12	Payment for labour charges: The supplier shall submit their offer for labour works per unit basis. Payment towards labour charges will be made as per actual's based on the quantity of work completed.

4.13	Delivery: The vendor shall deliver all the items at ECLSS Facility, HSFC/ISRO at Devanahalli, Bangalore,
5	Documentation:
5.01	After installation, the supplier shall submit a report with full details of the setup with facility layout, camera locations, system architecture, network cable routing diagram and operational and maintenance document of the overall system.
5.02	Vendor shall provide the Operation & Configuration manuals in English Only - Three sets.
6	Acceptance Testing
6.01	The overall system shall perform [24x7] trouble free operation as per the tender specification after successful installation. In the event of any failure notice the test shall be repeated.
6.02	The Vendor shall pay for and arrange, without any extra cost to HSFC/ISRO, all necessary testing equipment, instruments, materials, accessories, and the requisite labour. Any defects in materials and / or in workmanship detected in the course of testing shall be rectified by the Vendor, entirely at his own cost, to the satisfaction of HSFC/ISRO officials. HSFC/ISRO will not provide any test instruments/tools during acceptance testing.
7	Warranty
7.01	Standard Warranty: Minimum comprehensive warranty support for a period of three years shall be provided for all items and for the setup. Vendor shall provide OEM certificate/letter for service support during standard warranty period in case, any of the manufacturers provides comprehensive support for more than three years, for any item, the same shall be provided to HSFC/ISRO.
8	Training
8.01	Training has to be provided for user about the system configuration & operations at no extra cost.
9	Instructions related with labour components
9.01	Labour components generally required for laying, fixing and termination activities related with cables and racks are included. The quantity mentioned in the tender is indicative. During the actual work, in case of additional requirements, supplier shall supply passive components required and complete the labour activities. Payment will be made as per actuals on production of supporting documents
9.02	HSFC Engineer in-charge of the site will guide the supplier in cable laying activities within the ECLSS Facility.
9.03	Fixing of Cable Router marker: MS Cable route markers will be supplied by vendor and the supplier will be responsible for its fixing with concrete through the network cable path and should be labelled with colour markings which are clearly visible, distinguishable and long durable irrespective of climate conditions.
9.04	Trenching:
9.05	Trenching of soft soil:
9.06	750mm depth and 400mm width
9.07	Cable to be protected by continuous brick laying/ concrete sheet and sand
9.08	Refilled and strengthened up to ground level

9.09	Trenching of TAR Road:
9.10	750mm depth and 400mm width
9.11	Cable to be protected by continuous brick laying / concrete sheet and sand
9.12	Refilled and strengthened up to ground level
9.13	Concrete layer on ground level
9.14	Wherever trenching of soft soil and TAR surface is not possible beyond 750 mm, cables have to be routed through GI pipes.
9.15	The vendor shall take utmost care in laying, fixing and termination activities, to avoid any losses to ISRO assets and damages to already laid cables or building. In case of any damage, the vendor shall be responsible for re-establishing the facility and has to borne the incurring expenditure towards the damages.
9.16	Vendor to Ensure to use Stainless Steel Screws while fixing components in outdoor Locations to avoid rusting
10	Evaluation of L1 criteria: L1 will be arrived at the total landing cost including taxes, duties etc and also the AMC charges. (i.e., for the total solution). Item wise L1 will not be considered.