

Tender Details

Tender No: SCL/PS3/2018E0105801

Tender Date: 10/07/2018

Purchase Entity: Pur_Entity3

Tender Notice

E-Procurement Tender No. SCL/PS3/2018E0105801 dated 10.07.2018. SEMI-CONDUCTOR LABORATORY [SCL] invites ONLINE offers in Two Part through e-tender portal <https://eprocure.isro.gov.in> for Supply, installation, testing and commissioning of Audio-Visual works (AV) and stage lighting in the Auditorium Building at SCL. Tender documents can be downloaded from 11.07.2018 - 1601 hrs. to 07.08.2018 upto 1500 hrs. The vendors need to get registered in the e-tender portal to access tender and submit their offer online. Vendors need to have Digital Signature Certificate as detailed on our e-portal and corporate e-mail ID to register on the above portal. Only online tenders will be accepted. No Manual/Postal/courier/e-mail/fax tender will be entertained. Please note Tender fee shall not be applicable for tenders submitted on-line through this portal.

Vendors interested to participate in this e-Tender are required to register themselves as vendors, if not already registered, in our e-procurement portal <https://eprocure.isro.gov.in> by downloading plugins and help demos listed on the home page of the e-procurement link mentioned above to complete the vendor registration process. They can seek help from help desk 020 25315555 / 9167969601 (Email: support.isro@nextenders.com) also the home page of e-procurement portal may be accessed for any technical help for registration and subsequent process. Vendors may please note that without registering in our E-procurement portal they will not be able to quote for this tender.

Tender Attachments

Technical Write-up/Drawings

Attachment - I:

IDT001782000000000000isro05401.zip

Attachment - II:

Attachment - III:

Attachment - IV:

Attachment - V:

Instructions to Tenderers (PT)

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1. Interested tenderers may, at their option, login to <http://eprocure.isro.gov.in> and submit offers as per details in the tender notification.
2. Request for the extension of the due date will not be considered.
3. SCL reserves the right to accept or reject any / or all the tenders in part or full without assigning any reasons thereof. The bidder is at liberty to seek information related to bidding conditions, bidding process and/or rejection of its bid.
4. In this tender either the Indian Agent on behalf of the Principal/OEM or the Principal/OEM itself can bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorization letter obtained from their Principals/Manufacturers in their bid.

5. If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the tender for the same item. If submitted, all offers submitted by the said agent shall be excluded from the procurement process.
6. The tenders of vendors who have not agreed to furnish Security Deposit and Performance Bank Guarantee as sought vide this tender shall be excluded from the procurement process.
7. The tenders of bidders where the validity of the tender is shorter than the period specified in the tender enquiry shall be excluded from the procurement process.
8. Late tenders, delayed tenders, fax quotations and e-mail quotations are not considered.
9. SCL reserves the right to verify all claims made by the bidder.
10. SCL reserves the right to change any milestone date of the tendering activity / tender schedule.
11. Tender which is not submitted in terms of instructions mentioned herein is liable to be rejected.
12. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderer shall supply the same at the rates quoted.
13. It is expressly agreed that the acceptance of the Stores Contracted for is subject to final approval in writing by the Purchaser.
14. It is to be noted that the drawings, specifications, end-use, etc., given by the purchaser, are confidential and shall not be disclosed to any third party.
15. Prices are required to be quoted according to the units indicated in the tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
16. The Prices are to be mentioned both in figures as well as in words. The taxes, duties etc. are to be calculated and indicated in the column provided in online forms explicitly.
17. Bidders are expected to comply with commercial and other terms and conditions given in vendor specified terms of this tender. In case of any deviation, the reasons thereof should be clearly specified in the vendor specified terms column.
18. All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
19. Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.

20. Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
21. Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his bid. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
22. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.
23. The Purchaser reserves the right to place order on the successful tenderer for additional quantities up to 25% of the quantity offered by them at the rates quoted.
24. The contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually agreed to after negotiations.
25. Subletting and Assignment: The contractor/supplier cannot sublet, transfer or assign the order/Contract or any part thereof or interests therein or benefit or advantage thereof in any manner whatsoever, to any other party save with the previous written consent of the purchaser. Such consent by the purchaser, however, shall not relieve or discharge the contractor/supplier from any obligation, duty or responsibility under the Purchase Order/ Contract.
26. The contractor/supplier shall indemnify the purchaser against Workmen Compensation Act.
27. The authority of the person submitting the tender, if called for, should be produced.
28. This being a two part tender -Technical and Commercial part separate, the Technical part should not contain Pricing information. The tenders containing Price details in Technical part will be treated as unsolicited offers and rejected. Prices should be indicated in the Price Bid template only.
29. The bids shall be opened on first day of tender opening schedule as indicated in the Tender in the presence of the bidders/their authorized representatives who may like to attend the tender opening against presentation of Authorization letter.

Due to any breakdown in Server/Link, bid opening will be continued on the following dates.

The schedule of opening of Price bids shall be intimated separately to the technically qualified bidders only.

30. If tender opening date happens to be a public holiday, tender will be opened on the next working day and interested bidders may depute their representatives to attend the Tender Opening, with proper authorization.

31. PROCEDURE FOR EVALUATION OF TENDERS:

Technical Evaluation Criteria:

Vendor meeting the eligibility criteria and basic technical specifications mentioned in SCL Tender shall be considered to be technically qualified.

Evaluation of Price Bids

The following elements shall be considered for evaluation of Price Bids:

- a. Price quoted by the bidder in the price bid template for meeting the functionalities given in the Tender and Technical Specifications sheet.
- b. Compliance with the Payment Terms prescribed in this tender document. In the event, the bidder offers Payment Terms stringent than SCL prescribed Payment Terms, the bid of the bidder shall be loaded based on MCLR of SBI prevailing on the date of opening of price bids.
- c. Item wise cost of recommended spares required for one year of operation shall not be taken into account for evaluation of price bids.
- d. Post warranty comprehensive AMC for 5 years (including spares) shall not be taken into account for evaluation of price bids.

Standard Terms and Conditions

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1. Definitions:

- a) The term Purchaser shall mean the Director, Semi-Conductor Laboratory or his successors or assignees.
- b) The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Contractors Successors, representatives, heirs, executors and administrators unless excluded by the Contract.
- c) The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and

conditions mentioned or referred to in the said communication accepting the Tender or offer of the Contractor for supply of stores of plant, machinery, Software or equipment or part thereof.

d) The term Stores shall mean all that the Contractor agrees to supply under the Contract as specified in the Purchase Order including its installation, testing and commissioning as per the specifications.

2. PRICES:

Tenders offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotations with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

3. DEMURRAGE:

Supplier shall bear demurrage charges, if any, incurred by the purchaser due to delayed presentation of shipping documents as prescribed in para 3.2 to the bankers within a reasonable time (say within 10-12 days) from the date of bill of lading for sea consignments and within 3-4 days from the date of Air Way Bill for air consignments.

4. GUARANTEED TIME DELIVERY:

The time for and the date of delivery stipulated in the Purchase Order shall be deemed to be the essence of the Contract. Delivery must be completed within the date specified therein.

5. INSPECTION AND ACCEPTANCE TEST:

5.1 The Purchasers representatives shall also be entitled at all reasonable times during manufacture to inspect, examine and test on the Contractors premises the material and workmanship of all stores to be supplied under this Contract and if part of the said stores is being manufactured on other premises, the Contractor shall obtain for the purchasers representative permission to inspect, examine and test as if the equipment were being manufactured on the Contractors premises. Such inspection, examination and testing shall not release the Contractor from the obligations under this Contract.

5.2 For tests on the premises of the Contractor or of any of his sub-Contractors, the Contractor shall provide free of cost assistance, labour, material, electricity, fuel and instruments as may be required or as may be reasonably needed by the purchasers representative to carry out the tests efficiently.

5.3 When the stores have passed the specified test, the purchasers representative shall furnish a certificate to the effect in writing to the Contractor. The Contractor shall provide copies of the test/s certificates to the purchaser as may be required.

6. PORT OF ENTRY:

New Delhi (for air shipment) / Nhava Sheva Mumbai (for sea shipment)

7. CONSIGNEE:

Purchase and Stores Officer, Stores,

8. SHIPPING MARKS.

The mark on the shipping documents such as invoice, bill of lading and on the packages should be as follow:

PURCHASE ORDER NO.

DATED

GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

SEMI-CONDUCTOR LABORATORY

DESTINATION:

PORT OF ENTRY:

9. CONTRACTORS DEFAULT LIABILITY:

The purchaser may upon written notice of default to the Contractor terminate the Contract in whole or in part in circumstances detailed hereunder:

- a) If in the judgement of the Purchaser the Contractor fails to make delivery of Stores within the time specified in the Contract/agreement or within the period for which extension has been granted by the Purchaser to the Contractor.
- b) If in the judgment of the Purchaser the Contractor fails to comply with any of the other provisions of this Contract.

10. In the event the Purchaser terminates the Contract in whole or in part as provided in Contractor Default Liability, the Purchaser reserves the right to Purchase, upon such terms and in such a manner as he may deem appropriate, stores similar to that terminated and the Contractor shall be liable to the Purchaser for any additional costs for such similar stores and/or for liquidated damages for delay as defined in LD Clause until such reasonable time as may be required for the final supply of stores.

10.1. If this Contract is terminated as provided in Clause Contractor Default Liability, the Purchaser in addition to any other rights provided in this Article, may require the Contractor to transfer title and deliver to the Purchaser under any of the following clauses in the manner and as directed by the Purchaser:

- a. Any completed stores.
- b. Such partially completed stores, drawing, information and Contract rights (hereinafter called manufacturing material) as the Contractor has specifically produced or acquired for the performance of

the Contract as terminated. The Purchaser shall pay to the Contractor the Contract price for completed stores delivered to and accepted, by the purchaser and for manufacturing material delivered and accepted.

10.2. In the event the Purchaser does not terminate the Contract as provided in Contractor Default Liability, the Contractor shall continue the performance of the Contract in which case he shall be liable to the purchaser for liquidated damages for delay as set out in LD Clause until the stores are accepted.

11. REPLACEMENT:

If the stores or any portion thereof is damaged or lost during transit, the Purchaser shall give notice to the Contractor setting forth particulars of such stores damaged or lost during transit. The replacement of such stores shall be effected by the Contractor within a reasonable time to avoid unnecessary delay in the intended usage of the Stores. In case the purchaser agrees, the price towards replacement items shall be paid by the purchaser on the basis of original price quoted in the tender or as reasonably worked out from the tender.

12. REJECTION:

In the event that any of the stores supplied by the Contractor is found defective in material or workmanship or otherwise not in conformity with the requirements of the Contract specifications, the purchaser shall either reject the stores or request the Contractor, in writing, to rectify the same. The Contractor, on receipt of such notification, shall either rectify or replace the defective stores free of cost to the purchaser. If the Contractor fails to do so, the purchaser may at his option either –

- a. replace or rectify such defective stores and recover the extra cost so involved from the Contractor, or
- b. terminate the Contract for default as provided under Contractor Default Liability, above, or
- c. acquire the defective stores at a reduced price considered equitable under the circumstances. The provision of this article shall not prejudice the Purchasers rights under LD Clause

13. EXTENSION OF TIME:

If the completion of supply of stores is delayed due to reason of force majeure such as acts of god, acts of public enemy, acts of Government, fires, floods, epidemics, quarantine restriction, strikes, freight embargoes, etc., the Contractor shall give notice within 15 days to the purchaser in writing of his claim for an extension of time. The purchaser on receipt of such notice after verification, if necessary, may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the Contract.

14. GUARANTEE AND REPLACEMENT:

- a. The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down for material, workmanship and performance.

b. For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein are found to have developed under proper use arising from faulty materials, design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the Purchaser who shall state in writing in what respect the stores or any parts thereof are faulty.

c. If in the opinion of the purchaser it becomes necessary to replace or renew any defective stores, such replacements or renewals shall be made by the Contractor free of all costs to the purchaser provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

d. Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

e. The decision of the Purchaser, notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defects has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement shall be final, conclusive and binding on the Contractor.

f. To fulfil guarantee conditions outlined in Guarantee and Replacement above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser - Bank Guarantee format enclosed) from a Bank approved by the purchaser for an amount equivalent to 10% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

g. All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of stores at purchasers site.

h. Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications, then such a specification shall apply, and in such cases, the period of 14 months referred to in Guarantee and Replacement shall be asked for guarantee period plus two months.

15. REQUIREMENT OF ADDITIONAL NUMBERS OF THE STORES/SPARE PARTS ORDERED:

The Contractor shall also undertake the supply of additional number of items covered by the order as considered necessary by the purchaser at a later date, the actual price to be paid shall be mutually agreed to after negotiations.

16. PACKING:

a. The Contractor wherever applicable shall pack and crate all stores for sea /air shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with internationally accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail or sea for space qualified stores. The Contractors shall be responsible for all damages due to improper packing.

- b. The Contractor shall ensure that each box / unit of shipment is legible and properly marked for correct identification. The failure to comply with this requirement shall make the Contractor liable for additional expenses involved.
- c. The Contractor shall notify the purchaser of the date of shipment from the port of embarkation as well as the expected date of arrival of such shipment at the designated port of arrival.
- d. The Contractor shall give complete shipment information concerning the weight, size, content of each packages, etc.
- e. Transshipment of equipment shall not be permitted except with the written permission of the purchaser.
- f. Apart from the despatch documents negotiated through Bank, the following documents shall also be airmailed to the purchaser within 7 days from the date of shipment by sea and within 3 days in case of air-consignments:
 - a. Commercial Bill of Lading / Air Way Bill / Post parcel Receipt (Two non-negotiable copies)
 - b. Invoice (3 copies)
 - c. Packing List (3 copies)
 - d. Test Certificate (3 copies)
 - e. Certificate of Origin.

The Contractor shall also ensure that one copy of the packing list is enclosed in each case.

17. LANGUAGE AND MEASURES:

All documents pertaining to the Contract including specification, schedule, notice, correspondence, operating and maintenance instructions, drawings or any other writings shall be written in English language. The metric system of measurement shall be used exclusively in the Contract.

18. INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all Stores supplied against this Contract are free and clean of infringement of any patent, copyright or trade mark and shall at all times indemnify the purchaser against all claims which may be made in respect of stores for infringement of any right protected by Patent, Registration of design or Trade Mark, and shall take all risk of accident or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for the sufficiency of all the means used by him for the fulfilment of the Contract.

19. COUNTER TERMS AND CONDITIONS OF SUPPLIERS:

Where counter terms and conditions/printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the purchaser unless specific written acceptance thereof is obtained.

20. SECURITY INTEREST:

On each item to be delivered under this Contract, including an item of work in progress in respect of which payments have been made in accordance with the terms of the Contract, purchaser shall have a security interest in such items which shall be deemed to be released only at the time when the applicable deliverable item is finally accepted and delivered to the purchaser in accordance with the terms of the Contract. Such security interest of the purchaser shall constitute a prior charge as against any other charge or interest created in respect of such items by any entity.

21. TRAINING:

The Contractor shall, if required by the purchaser, provide facilities for the practical training of Purchasers engineering / technical personnel from India and for their active association on the manufacturing processes throughout the manufacturing period of the Contract / stores, number of such personnel to be mutually agreed upon.

22. RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

23. SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

Bid Templates

Document Solicited from Vendor

Attachment 1:

Attachment 2:

Intent

Item Specifications

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	Intent of Specification			
2	The technical scope of the project includes supply, installation, testing and commissioning of all material as per Bill of Quantities for Audio-Visual works (AV) and stage lighting envisaged to be carried out in the ongoing project of construction of Auditorium Building of 400 seating capacity at Semi-Conductor Laboratory (SCL), S.A.S. Nagar, Mohali (Punjab).			
3	Specification includes receiving, unloading, storage, insurance, in-			

	plant transportation of all equipment & accessories covered under this specification and BOQ.			
4	The work shall be carried out by the selected vendor (contractor) as per the tendered specifications and Bill of Quantities, forming part of this RFP, with high quality workmanship employing best engineering practices and as per the directions of SCL's concerned engineers. As per the detailed technical specifications defined under the aforesaid work packages.			
5	This scope of work shall include design, engineering, manufacturing, shop testing, inspection, packing, dispatching, loading, unloading and storage at site, erection, complete pre-commissioning checks, testing & commissioning at site and handing over the work to SCL.			
6	On the ground floor of the Auditorium building, there is a conference room and Multi-Purpose Hall, whereas the Auditorium Hall is on the First Floor.			

	<p>The civil construction work of Auditorium Building is nearing completion. Internal wiring and power distribution work in the Auditorium Building is in progress, while the Acoustic work (wall paneling, false ceiling, carpeting etc.) in the auditorium is likely to commence from August 2018. The HVAC work is also about to commence. The works under the scope of this tender shall be undertaken by the contractor concurrently and in close co-ordination with the progress of interior finishing works, Acoustics, electrical and HVAC works.</p>			
7	<p>The contractor shall prepare working drawings complying with the tender specifications, tender drawings and Bill of quantities (BOQ), and submit the drawings to SCL for its approval. SCL shall review the drawings and comments, if any, shall be incorporated in the same by the Contractor. The approved drawings (to be called as the Approved for construction or AFC drawings) shall be the drawings for</p>			

	implementation by the Contractor.			
8	Payment for the work shall be made on the basis of actual work done and the accepted rates for various items in the Bill of Quantities			
9	Civil works and providing power sockets are in the scope of SCL. SCL shall provide power sockets (2no. in conference room and 3 no. in AV control room) for the AV work and power for the stage lighting load. Further wiring/distribution, making cut-outs or penetrations for conduits etc. and making good the same is in contractor's scope of work. The quoted rate shall be deemed to be inclusive of these activities.			
10	The contractor may visit site of work, to get fully acquainted with the site condition etc., and study specifications, drawings etc. carefully before tendering. The site visit can be arranged on any working day from Monday to Friday (10.00 AM – 4.00 PM) up to 3 days prior to the last date of tender downloading.			

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Quantity variation:

The quantities indicated against each item in the Bill of Quantities (BOQ) are indicative and are for the purpose of bidding only. Variation in quantities up to + 25% shall be carried out by the contractor on the agreed/Purchase Order (PO) rates and terms & conditions as in the Purchase Order (PO). In case of contract items which exceed the said limit of +25%, the contractor may claim revision of rates supported by proof analysis and if the rate claimed in excess of the rate specified in the bill of quantities, SCL's concerned engineer shall after giving consideration to the analysis of rates submitted by the contractor determine the rates on the basis of market rates and the contractor shall be paid in accordance with the rates so determined. The Contractor's profit & OH shall be factored in the rate analysis@15%.

12	<p>Extra Items: :</p> <p>In case of extra items (that are completely new and are in addition to the items contained in the contract), the contractor may claim rates supported by proper analysis and SCL's concerned engineer shall after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of market rates and the contractor shall be paid in accordance with the rates so determined. The Contractor's profit & OH shall be factored in the rate analysis@15%.</p>			
13	<p>Delivery & Installation Schedule: :</p> <p>The time allowed for Supply, Installation, Testing and Commissioning for entire work shall be 4 months from the 7th day of issue of purchase order by SCL.</p>			

14	<p>Deviation:</p> <p>a. Contractor / vendor to clearly mention the deviation in the specification in case of any deviation from the tendered specifications.</p> <p>b. All such deviation shall be clearly mentioned on the deviation sheets and submitted with the offer.</p> <p>c. Unless such deviations are recorded in the deviation sheets and submitted with the offer, it will be assumed that the offer is made in conformity with this specification in all respects.</p> <p>d. The deviations shall be evaluated by SCL and acceptance of the same shall be the sole discretion of SCL.</p>			
15	<p>Warranty: :</p> <p>The vendor/contractor shall provide comprehensive warranty for the entire installation (all Hardware and software components) for</p>			

	<p>3 years from the date of Final Acceptance. Warranty will cover repair/replacement of all defective parts/system, if any, with the same make and same or higher version for any part/system removed. Maintenance will be provided at site. Limited/carry in warranty will not be accepted. The contractor will provide after sale service during the warranty period from Chandigarh or from nearest place of installation. The contractor shall attend the complaint within 4 hours and not beyond 8 working hours (one working day). Faulty item shall be restored within 24 hrs. either with new device or with fall back arrangement.</p> <p>a)The updated and upgrades of all related software/firmware licenses shall be supplied free of cost during the warranty.</p> <p>b)It will be the sole responsibility of the contractor for repair or replacement of the component(s), as per the case. The contractor will</p>			
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	<p>be responsible for coordination with the OEM for replacement or repair, and must ensure that the desired action is performed with 5 working days.</p> <p>c)The contractor /vendor shall depute its experts at site to trouble shoot the problems, if any and support the rectification / maintenance works, as and when required, to meet the stipulated up-time of the systems installed by them during warranty.</p> <p>d)The contractor will be responsible for Preventive maintenance of all the components supplied and installed under the contract. The bidder will have to carry out the preventive maintenance exercise at least once in 6 months during warranty.</p> <p>e)The contractor will be responsible to facilitate the warranty services provided by the OEMs. It will be the sole responsibility of the contractor /vendor to provide trouble shooting support for all Audio Visual related issues and seek OEMs support for the</p>			
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	<p>same, if required.</p> <p>f) During the warranty period, the vendor/contractor shall provide technical support for tuning, bug fixing, implementation of additional features, troubleshooting, resolving technical glitches etc. for smooth performance of the Audio Visual solution without any additional cost to SCL.</p>			
16	<p>Submittals: :</p> <p>On successful completion of the entire work, the Contractor shall provide 'As Built' drawings for all the Systems executed under the Contract. Three (03) sets of hard copies and one (01) set in soft copy (Pen Drive) in Auto-CAD format shall be provided to SCL for its record and reference. Contractor shall also provide instruction / Operation manual(s) and maintenance manuals for the all equipment.</p>			
17	<p>Co-ordination: :</p>			

	<p>The contractor shall carry out the work in coordination with the other contractors engaged by SCL. The contractor shall provide a full-time project manager who is to be present on site at all the times when the Work is actively in progress. This person shall be the same individual throughout the course of the Project and shall be the person responsible for system programming, preparation of Operation and Maintenance Manuals, training programs and schedules, test protocols, documentation of system testing, maintenance of Record Documentation and coordination.</p>			
18	<p>Testing: :</p> <p>The vendor/contractor shall perform necessary tests on the installed Audio-Visual System, using appropriate testing methodology and tools to ensure the required level of performance and to submit a detailed test</p>			

	report.			
19	<p>Acceptance Procedure: :</p> <p>After Installation, Testing and Commissioning, the contractor shall conduct following tests as a part of acceptance of the equipment / systems by SCL.</p> <p>a.Functional test of each equipment / system</p> <p>b.Measurement of various performance parameters for conformance to the Specifications.</p> <p>c.Satisfactory operation of the entire installation for seven (7) days.</p>			
20	<p>Training: :</p> <p>The vendor (contractor) shall provide 15 days training to SCL Personnel in operation and maintenance of the total Audio Visual System. Further, during the warranty period the contractor will deploy at</p>			

	<p>least one technical expert for the 5 (five) Major live events in the SCL Auditorium and 5 (five) video conference events in the Conference Hall. The Technical expert engineer will be responsible to manage the event in the Auditorium/Conference Room/ Multipurpose Hall and simultaneously give hand-on training to the SCL personnel for handling such kind of events. All the ten (10) events managed by the contractor's technical person shall be free of cost.</p>			
21	<p>Safety: :</p> <p>Vendor/contractor shall ensure adherence to safe construction practices which shall inter-alia include use of Personnel Protection Equipment (PPE) by their workmen, supervisors etc. deployed on the work. PPE viz., safety helmets, safety shoes, harnesses, safety glasses etc. shall be provided by the vendor for the safety of all the personnel at the site of work. contractor shall take adequate measures</p>			

	<p>to ensure that no damage or loss is caused to SCL's buildings, equipment and personnel due to any activity carried out by the vendor relating to the performance of the Contract. contractor shall be liable to make good the loss/damage including any consequential damage caused by them and in case of failure to do so, SCL shall recover the same from the vendor.</p>			
22	<p>Security Procedure: :</p> <p>vendor/contractor shall be required to follow the security procedures in vogue at SCL for the movement of contractor's personnel, materials etc. into/from SCL premises.</p>			
23	<p>Power supply for installation: :</p> <p>Electricity, if available in the premises and sparable, will be provided to the contractor by SCL on charge /cost basis only at the single point subject to</p>			

	<p>the following conditions: -</p> <p>a)The Contractor has to make his own arrangement to tap Electricity from a 3 phase/single phase supply from location decided by SCL's concerned engineer.</p>			
24	<p>Storage/ site office space:</p> <p>:</p> <p>Contractor shall be provided a lockable room within SCL premises for storage space and site office.</p>			

Eligibility

Item Specifications -I

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	<p>Eligibility Criteria: :</p> <p>Only those contractors who fulfill the following requirement shall be eligible to apply. Joint ventures are not accepted.</p>			

2	<p>Should have satisfactorily completed in last 7 years ending 31.05.2018, Three (3) similar auditorium works, whose sitting capacity should not be less than 160 or Two (2) similar auditorium works, whose sitting capacity should not be less than 240 or one (1) similar auditorium work, whose sitting capacity should not be less than 320. "Similar works" shall mean Supply, Installation, Testing and commissioning of Audio Video & control system and stage lighting for Auditorium. To ascertain eligibility for the work, the participating bidder shall enclose copy (ies) of the detailed purchase Order(s)/ work order(s) and their completion certificate(s), evidencing satisfactory completion of similar works issued by the respective clients/organizations with e-mail and contact details. Completion certificate for works issued by private parties shall be supported by TDS.</p>			
3	<p>Should have average annual financial turnover of Rs. 2,00,00,000/- during</p>			

	the last three (3) years ending 31st march 2017.			
4	<p>The contractor should not have incurred any loss in more than two years during the last five (5) years ending 31.3.2017 duly certified by Chartered Accountant.</p> <p>Bidder to provide certified copy from chartered accountant for the Annual Financial turnover and balance sheet showing profit and loss.</p>			
5	<p>The contractor should have good knowledge of AutoCAD to prepare shop drawings for approvals, experienced (minimum 3 years) skilled labors/Supervisors /Managers to co-ordinate the site activities, and CTS qualified professionals for design, commissioning and testing of all the equipment supplied.</p> <p>The resumes of key personnel identified for the project evidencing the requirements stated in the preceding Para at 4 above should be enclosed with the proposal.</p>			

6	<p>NOTE:</p> <p>1.Vendors shall quote rates against each item in the Itemized Bill of Quantities (BOQ) in the quote format of the priced bid. Bidders are advised not to quote any rate in the BOQ provided in the Technical specification document.</p> <p>2.Various materials/systems etc. procured by the selected Contractor for incorporation in the work shall be only of RFP specified Makes/Manufacturers of various materials / systems. Submittals of the same shall be submitted by the contractor for SCL review and approval.</p>			
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Audio-Video in Auditorium-1

Item Specifications -II

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	Specifications for Audio-			

	<p>Video in Auditorium:</p> <p>Supply and Installation of passive bi-amplified dual 12' Array speakers (Left, Right and Centre)</p> <p>Frequency Response (-10dB): 60Hz-30kHz</p> <p>Power capacity average HF > 350W LF > 350W</p> <p>Total Vertical coverage for each array set (minimum 2 per array)- minimum 70 to 80 degrees</p> <p>Maximum SPL: >120dB</p> <p>To include array frame, accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
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2	<p>Supply and Installation of dual channel Amplifier</p> <p>Power capacity: up to 600W continuous per channel @ 8ohms</p> <p>With built-in DSP, Delay, cross over, Eq & presets</p> <p>Signal to Noise Ratio: >95dBA</p> <p>THD 20Hz - 20kHz for 1W: <0.1%</p> <p>To include mounting accessories, power cables etc.</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
3	Supply and Installation of passive dual 12" band			

	<p>pass ceiling suspended subwoofer (Left and Right)</p> <p>Frequency Range(-10dB): 35Hz-200Hz</p> <p>Power capacity continuous > 800W @ 4 ohms</p> <p>Power capacity Peak >3200W</p> <p>Maximum SPL: >120dB</p> <p>To include mounting frame, accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
4	<p>Supply and Installation of dual channel Amplifier</p> <p>Power capacity: up to 750W continuous per</p>			

	<p>channel @ 4ohms</p> <p>Signal to Noise Ratio: >95dBA</p> <p>THD 20Hz - 20kHz for 1W: <0.2%</p> <p>To include mounting accessories, power cables etc.</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
5	<p>Supply and Installation of passive 10" Side Surround Speakers</p> <p>Frequency Range (-10dB): 70Hz-20kHz</p> <p>Power capacity continuous > 300W</p> <p>Power capacity Peak</p>			

	<p>>1200W</p> <p>Maximum SPL: >120dB</p> <p>To include mounting accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
6	<p>Supply and Installation of dual channel Amplifier</p> <p>Power capacity: up to 550W continuous per channel @ 8ohms</p> <p>Signal to Noise Ratio: >95dBA</p> <p>THD 20Hz - 20kHz for 1W: <0.2%</p> <p>To include mounting accessories, power cables</p>			

	<p>etc.</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
7	<p>Supply and Installation of passive 10" Rear Surround Speakers</p> <p>Frequency Range (-10dB): 70Hz-20kHz</p> <p>Power capacity continuous > 300W</p> <p>Power capacity Peak >1200W</p> <p>Maximum SPL: >120dB</p> <p>To include mounting accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/</p>			

	Martin Audio			
8	<p>Supply and Installation of dual channel Amplifier</p> <p>Power capacity: up to 550W continuous per channel @ 8ohms</p> <p>Signal to Noise Ratio: >95dBA<br.<br.
THD 20Hz - 20kHz for 1W: <0.2%</p> <p>To include mounting accessories, power cables etc.</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
9	<p>Supply and Installation of powered 12' Stage Monitors</p> <p>Frequency Range (-10dB):</p>			

	<p>50Hz-20kHz</p> <p>Power capacity continuous > 250W</p> <p>Power capacity Peak >1000W</p> <p>Maximum SPL: >100dB</p> <p>To include mounting accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
10	<p>Supply and Installation of powered two way 5'-6' Speaker for Green rooms</p> <p>Frequency Range (-10dB): 60Hz-20kHz</p> <p>Power capacity continuous > 50W</p>			

	<p>Power capacity Peak >200W</p> <p>Maximum SPL: >100dB</p> <p>Mic/Line Input and Link output</p> <p>To include Wall mounting accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
11	<p>Supply of Control room headphones</p> <p>Wired around the ear headphones for monitoring</p> <p>Frequency Response - 25Hz to 20KHz</p>			

	<p>Make: Music Group / AKG / Audiotechnica / Shure / Beyerdynamic</p>			
12	<p>Supply and Installation of Wired vocal microphone</p> <p>Cardoid or hypercardoid pattern dynamic microphone</p> <p>Make: AKG / Audiotechnica / Shure / Beyerdynamic</p>			
13	<p>Supply and Installation of Wired instrument microphone</p> <p>Cardoid or hypercardoid pattern dynamic microphone</p> <p>Make: AKG / Audiotechnica / Shure / Beyerdynamic</p>			

	<p>Make: AKG/ Audiotechnica / Shure / Beyerdynamic</p>			
14	<p>Supply and Installation of Wireless Handheld microphone</p> <p>To include 1 handheld microphone, 1 receiver with power supply, 1 charger for handheld transmitter, Antenna, cables etc. No. of simultaneous Frequencies per band should be minimum 12 per band</p> <p>Make: AKG/ Audiotechnica / Shure / Beyerdynamic</p>			
15	<p>Supply and Installation of Lapel Microphone set</p> <p>To include 1 lapel microphones, 1 receiver</p>			

	<p>with power supply, 1 body pack transmitter, 1 charger for body pack transmitter, Antenna, cables etc. No. of simultaneous Frequencies per band should be minimum 12 per band</p> <p>Make: AKG/ Audiotechnica / Shure / Beyerdynamic</p>			
16	<p>Supply and Installation of Headworn Microphone set</p> <p>To include 1 Headworn microphones, 1 receiver with power supply, 1 body pack transmitter, 1 charger for body pack transmitter, Antenna, cables etc. No. of simultaneous Frequencies per band should be minimum 12 per band</p> <p>Make: AKG/ Audiotechnica / Shure / Beyerdynamic</p>			

17	<p>Supply and Installation of Gooseneck</p> <p>18' gooseneck cardoid / hypercardoid pattern dynamic microphone</p> <p>To include mounts, connectors and cables</p> <p>Make: AKG / Audiotechnica / Shure / Beyerdynamic</p>			
18	<p>Supply and Installation of Active DI box</p> <p>To include mounts, connectors and cables</p> <p>Make: Klark technik / BSS</p>			

19	<p>Supply of microphone stand with boom - Floor standing</p> <p>Make: Custom to be approved by SCL</p>			
20	<p>Supply of microphone stand with boom - Table top</p> <p>Make: Custom to be approved by SCL</p>			
21	<p>Supply and Installation of 7.1 AV surround sound pre-amp with Balanced Line outputs</p> <p>Make: Denon / Marantz / Yamaha</p>			
22	Supply and Installation of			

	<p>32 channel digital mixer</p> <p>Inputs: 32 line inputs with minimum 2 stereo inputs</p> <p>Outputs: 1 stereo/ mono out</p> <p>Features: 48V Phantom power, 20-20kHz frequency range, effects processor</p> <p>Make: Behringer / Soundcraft</p>			
23	<p>Supply and Installation of Antena Splitter system</p> <p>To include Antena distributor to support up to 8 wireless microphones and necessary Active antena to be installed in the Hall</p> <p>Make: AKG / Audiotechnica / Shure /</p>			

	Beyerdynamic			
24	<p>Supply and Installation of dual 31 band Graphic Equalizer</p> <p>Frequency response at (\pm 3dB) : 10Hz to 30kHz</p> <p>Features: Auto gain control, delay control</p> <p>Make: Behringer / dbx</p>			
25	<p>Supply and Installation of Loudspeaker management system</p> <p>Inputs: 3, Outputs: 6 with RS232/RS485 control and Cascading feature>br></p> <p>Sampling frequency: 96kHz</p> <p>Features: Auto gain</p>			

	<p>control, delay control</p> <p>Make: BOSE / QSC / Music Group / Harman</p>			
26	<p>Speaker cables</p> <p>14AWG shielded twisted pair copper cable</p> <p>Including 7.1 for around 14-16 speakers individually</p> <p>Make: Belden / Sommer / Gotham</p>			
27	<p>Snake cables - 12 core</p> <p>24AWG shielded twisted pair copper cable</p> <p>Make: Belden / Sommer / Gotham</p>			

28	<p>Microphone cables</p> <p>24AWG shielded twisted pair copper cable</p> <p>Make: Belden / Sommer / Gotham</p>			
29	<p>Connectors</p> <p>Make: Neutrik / Amphenol / Switchcraft</p>			

Audio-Video in Auditorium-II

Item Specifications -III

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	48U AV rack with power bar			

	Make: Net rack/ Conscope			
2	<p>Supply and Installation of Projector</p> <p>Light Output: 8500 ANSI Lumens or more (Short throw)</p> <p>Native Resolution: WUXGA</p> <p>Video Input: HDMI, Composite video input, S-Video Input, VGA</p> <p>Audio Input: Stereo 3.5mm mini jack</p> <p>Control terminals: RJ-45, RS 232C</p> <p>Lamp Type: Laser</p> <p>Lamp: <400W</p>			

	<p>Accessories: Including but not limited to Power cables, Remote control, Dust cover and other accessories etc</p> <p>Make: Christie / Barco / Digital Projection</p>			
3	<p>Ceiling mount kit</p> <p>Height as per the site dimensions</p> <p>Make: Custom to be approved by SCL</p>			
4	<p>Supply and Installation of Motorized projection screen</p> <p>Image Size (H X W): 12' x 16' (16:10) size</p> <p>Gain: >1</p>			

	<p>Make: Grandview / Da-Lite/Draper</p>			
5	<p>Supply and Installation of LED 55' Display for Green rooms and VIP room</p> <p>With 2 HDMI inputs</p> <p>Accessories: Including Remote control, Wall mount or ceiling mount and other accessories etc</p> <p>Make: LG/Panasonic/Sony</p>			
6	<p>Supply and Installation of Networked HD Digital Video recorder with minimum 80GB HDD, HDMI input for recording</p> <p>Makes: Matrox / Sony/Panasonic / Axis</p>			

7	<p>Supply and Installation of PTZ camera</p> <p>High Definition PTZ Camera</p> <p>Imaging Sensors 1/3 type Full-HDMOS</p> <p>Lens: Motorized 18x zoom, Wide angle, HDMI/DVI-I output</p> <p>Makes: Canon / Axis / Sony</p>			
8	<p>PTZ camera controller with multiviewer camera output</p> <p>Make: Vaddio / Panasonic / Sony</p>			

9	<p>Supply and Installation of DVD / Bluray player</p> <p>Region compatibility: compatible with indian region</p> <p>Media supported:</p> <p>With 7.1 facility</p> <p>BD-rom, DVD-R/RW, DVD+R/RW, CD, USB memory, External Hard drive (FAT32/NTFS)</p> <p>Video and Audio formats:</p> <p>WMV, WMA, WAV, AVI, MP3, MP4, MPEG, AAC and other common formats</p> <p>Output Terminals: HDMI, 3.5mm mini audio jack</p> <p>To include cables and connectors</p> <p>Make: Sony, Philips</p>			

10	<p>Supply and Installation of 2.0 HDMI Video Matrix Switcher 8X8 with built-in audio de-embedder</p> <p>Make: Lightware / Extron / Kramer</p>			
11	<p>Supply and Installation of Shielded CAT6 cables</p> <p>Make: Extron / Kramer / Amp / Belden</p> <p>Supply and Installation of HDMI Tx extender over Shielded CAT6 Cable (F/UTP) with distance up to 70 meters for Full HD signal</p> <p>Make: Lightware / Extron / Kramer</p>			

12	<p>Supply and Installation of HDMI Tx extender over Shielded CAT6 Cable (F/UTP) with distance up to 70 meters for Full HD signal</p> <p>Make: Lightware / Extron / Kramer</p>			
13	<p>Supply and Installation of HDMI Rx receiver over Shielded CAT6 Cable (F/UTP) with distance up to 70 meters for Full HD signal</p> <p>Make: Lightware / Extron / Kramer</p>			
14	<p>Supply and Installation of HDMI cables</p> <p>20 meters each</p> <p>10 meters each</p>			

	<p>5 meters each</p> <p>Make: Lightware / Extron / Kramer</p>			
15	<p>Supply and Installation of Floor boxes - Video</p> <p>With 1 HDMI, 1 VGA+ Audio with inbuilt audio de-embedder and Cat6 out</p> <p>Make: Lightware / Extron / Kramer</p>			
16	<p>Supply and Installation of Floor boxes - Audio</p> <p>With 2 microphones, 1 Speaker</p> <p>Make: Custom to be approved by SCL</p>			

17	<p>Supply and Installation of Floor boxes - Power</p> <p>With 3 power</p> <p>Make: Custom to be approved by SCL</p>			
18	<p>Conduits (1 inch)</p> <p>Make: Custom to be approved by SCL</p>			
19	<p>Raceway (100mmX40mm)</p> <p>Make: Custom to be approved by SCL</p>			
20	Cable tray (150mm width)			

	Make: Custom to be approved by SCL			
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Audio-Video in Conference Room

Item Specifications -IV

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	<p>Technical Specification for Video and Audio Conferencing System in Conference Room of Auditorium</p> <p>Video wall (Using 55' Display with Ultra Narrow Bezel)</p> <p>Size: 2.80mX 7.20m</p> <p>With Daisy chain facility and 2 HDMI inputs each</p>			

	<p>Resolution: 1920x1080</p> <p>Accessories: Including frame work for placing the video wall above 1.2m from the stage floor level and other accessories etc</p> <p>Make: Samsung / LG / Panasonic / Sony</p>			
2	<p>Video Conference Equipment</p> <p>Features: Video up to: 1080p, 720p</p> <p>Data up to: 1080p/ WUXGA 30fps</p> <p>Full band audio</p> <p>Dual screen support</p> <p>12 Mbps bandwidth</p>			

	<p>Support H.264, H.263++ and other video standards</p> <p>Full HD camera with pan, tilt and zoom features</p> <p>Digital Mic array with automatic echo cancellation and noise suppression and speakers</p> <p>Accessories: Including but not limited to mounting accessories, cables etc.</p> <p>Make: Polycom /Tandberg</p>			
3	<p>Wall plate</p> <p>Wall Plate Digital Media 8G+™ Transmitter 200, Black Textured; includes PW-2407WUL</p> <p>Make: Lightware / Extron / AMX / Crestron / Kramer</p>			

4	<p>Transmitter</p> <p>Digital Media 8G+™ Transmitter 201</p> <p>Make: Lightware / Extron/ AMX/ Crestron/ Kramer</p>			
5	<p>Room Controller</p> <p>Digital Media 8G+™ Receiver & Room Controller w/Scaler</p> <p>Make: Lightware / Extron/ AMX/ Crestron/ Kramer</p>			
6	<p>Power Pack</p> <p>HDMI Twisted pair</p>			

	<p>Extender</p> <p>Make: Lightware / Extron/ AMX/ Crestron/ Kramer/ Blackbox</p>			
7	<p>Conference system</p> <p>1 no. of Fully digital wired Flush Mount Chairman unit, unit should be a fully integrated Chairman panel equipped, should have clear button for deactivate all the microphone headphone connector and headphone volume control, that included gooseneck microphone should be free from interference caused by mobile phones.</p> <p>It should combine several functionalities in one single panel. Gooseneck microphone with GSM immunity and LED ring, Microphone on/off button, RJ 45 or D9 or 6 Pole connector connectors for separate loop through cabling, Microphone</p>			

	<p>length should not be less than 450 mm,3.5 mm jack socket for headphone, microphone should be programmed to track the camera during video conferencing etc. as required.</p> <p>Make: Bosch (DCN -DDI +DCN-FMIC+DCN-FMICB+DCN-MICL+DCN -FPRIOB) ,Series /Brahler Digimic DChair Base+TMD/01 SM-360 /Beyerdynamic Orbis MU 43+GM 115Q</p> <p>24 no. of Fully digital wired delegate unit, unit should be a fully integrated delegate panel equipped, headphone connector and headphone volume control, that included gooseneck microphone should be free from interference caused by mobile phones. It should combine several functionalities in one single panel. Gooseneck microphone with GSM immunity and LED ring, ,Microphone on/off button , RJ 45 or D9 or 6 Pole connector connectors for separate loop through cabling,</p>			
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	<p>Microphone length should not be less than 450 mm, 3.5 mm jack socket for headphone, microphone should be programmed to track the camera during video conferencing etc. as required.</p> <p>Make: Bosch (DCN -DDI +DCN-FMIC+DCN-FMICB+DCN-MICL) /Brahler Digimic DMic +TMD/01 SM-360Base/Beyerdynamic Orbis MU 41+GM 115Q</p> <p>Digital Central control unit should have the following features, the central unit for powering, configuring and Controlling connected Chairman, Delegate units, and option to control up to 50 units. The system should have in built digital processing and control/ transmission of the Digital audio signals. It should have basic management facilities with at least 4 open microphones should have recording facility SD/USB/External Drive</p> <p>Make: Bosch DCN-CCU2</p>			
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	<p>/Brahler DCen controller /Beyerdynamic Orbis CU</p>			
8	<p>Ceiling speakers</p> <p>Frequency Response: 50Hz-20kHz</p> <p>Power capacity: 30W on 70/100V line</p> <p>Maximum SPL: >85dB</p> <p>To include mounting accessories and connectors</p> <p>Make: Bose / Bosch / Music Group / QSC</p>			
9	<p>Dual channel Amplifier</p> <p>Power capacity: 100W continuous per channel</p>			

	<p>Signal to Noise Ratio: >95dB</p> <p>THD: <0.5%</p> <p>To include mounting accessories, power cables etc.</p> <p>Make: Crown / DAS / QSC / Music Group</p>			
10	<p>Dual two way 5' wall mount main speakers</p> <p>Frequency Response: 80Hz-18kHz</p> <p>Power capacity: 120W</p> <p>Maximum SPL: >100dB</p> <p>To include mounting accessories etc</p>			

	<p>Make: Bose / Bosch / Music Group / QSC</p>			
11	<p>Dual channel Amplifier</p> <p>Power capacity: 150W continuous per channel</p> <p>Signal to Noise Ratio: >95dB</p> <p>THD: <0.5%</p> <p>To include mounting accessories, power cables etc.</p> <p>Make: Crown / DAS / QSC / Music Group</p>			
12	<p>Matrix Switcher</p> <p>4VGA 4 HDMI & CAT5 Output & 1 One Receiver</p>			

	<p>Make: Lightware / Crestron / Extron / Kramer</p>			
13	<p>Touch panel</p> <p>10.1', Touch screen</p> <p>Make: Lightware / Crestron / Kramer / Extron / Ipad</p>			
14	<p>Table kit</p> <p>for TSW - 1050 - B - s</p> <p>Make: Lightware / Crestron/ Extron/ Kramer</p>			
15	<p>Power Injector</p>			

	<p>PoE Injector</p> <p>Make: Lightware / Crestron/ Extron/ Kramer</p>			
16	<p>Router4 Port ethernet</p> <p>Make: Cisco/ HP/ Linksis/ Dlink</p>			
17	<p>Sensor integration module</p> <p>Model: GLS - SIM</p> <p>Make: Lightware / Crestron/ Extron/ Kramer</p>			
18	<p>Occupancy sensor</p>			

	<p>Ceiling mount occupancy sensor</p> <p>Model: GLS - ODT - C - 2000</p> <p>Make: Lightware / Crestron/ Extron/ Kramer</p>			
19	<p>HDMI Cables</p> <p>Ultra flexible High speed</p> <p>Make: Lightware / Extron / Kramer</p>			
20	<p>VGA Cables</p> <p>Make: Lightware / Extron / Kramer</p>			

21	<p>Speaker Cable</p> <p>16AWG shielded twisted pair copper cable</p> <p>Make: Belden/Kramer</p>			
22	<p>Cable Cubby</p> <p>cable cubby with Retractor VGA-A, Retractor HDMI, Retractor Filler Module, Cable Cubby 202 Retractor Bracket</p> <p>cable cubby 202 with retraction mechanism</p> <p>Make: Lightware / Crestron / Extron / Kramer</p>			
23	<p>Cabinet Rack</p> <p>14 RU 18' Deep</p>			

	Make: Net rack/ Conscope			
24	Power Strip 230V, 15A , 13 Horizontal power strip Make: Tripplite			
25	Conduits (1 inch) Make: Custom to be approved by SCL			
26	Raceway (100mmX40mm) Make: Custom to be approved by SCL			

27	Cable tray (150mm width) Make: Custom to be approved by SCL			
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Audio Video in multipurpose Hall

Item Specifications -V

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	Specification for Audio-Video in Multi-Purpose Hall <br. Supply and Installation of passive 10" Speakers Frequency Range (-10dB): 70Hz-20kHz Power capacity continuous			

	<p>> 300W</p> <p>Power capacity Peak >1200W</p> <p>Maximum SPL: >120dB</p> <p>To include mounting accessories and connectors</p> <p>Make: BOSE/ Music Group / D & B Audio /QSC/ Martin Audio</p>			
2	<p>Supply and Installation of dual channel Amplifier</p> <p>Power capacity: up to 550W continuous per channel @ 8ohms</p> <p>Signal to Noise Ratio: >95dBA</p> <p>THD 20Hz - 20kHz for 1W: <0.2%</p>			

	<p>To include mounting accessories, power cables etc</p> <p>Make: BOSE / Music Group / D & B Audio / QSC / Martin Audio</p>			
3	<p>Supply and Installation of Loudspeaker management system</p> <p>Inputs: 3, Outputs: 6 with RS232/RS485 control and Cascading feature</p> <p>Sampling frequency: 96kHz</p> <p>Features: Auto gain control, delay control</p> <p>Make: BOSE / QSC / Music Group / Harman</p>			

4	<p>Speaker cables</p> <p>14AWG shielded twisted pair copper cable</p> <p>Make: Belden / Sommer / Gotham</p>			
5	<p>Connectors</p> <p>Make: Neutrik / Amphenol / Switchcraft</p>			
6	<p>Supply and Installation of LED 55' Display With 2 HDMI inputs</p> <p>Accessories: Including Remote control and other accessories etc</p> <p>Make: LG / Panasonic / Sony</p>			

7	<p>Folding Mounting Bracket for display Ceiling mount with folding option towards upside</p> <p>Make: Chief</p>			
8	<p>Supply and Installation of 2.0 HDMI Video Distribution Amplifier of 2 inputs and 8 outputs Interconnection between transmitter and receivers and RJ-45 Outputs</p> <p>Make: Extron / Lightware / Kramer</p>			
9	<p>Supply and Installation of Shielded CAT6 cables</p> <p>Make: Extron/Kramer/</p>			

	Amp/ Belden			
10	<p>Supply and Installation of HDMI Rx transmitter receiver over Shielded CAT6 Cable (F/UTP) with distance up to 70 meters for Full HD signal</p> <p>Make: Lightware / Extron / Kramer</p>			
11	<p>Supply and Installation of 1 meter HDMI cables</p> <p>Make: Lightware / Extron / Kramer</p>			
12	<p>Conduits (1 inch)</p> <p>Make: Custom to be approved by SCL</p>			

13	Raceway (100mmX40mm) Make: Custom to be approved by SCL			
14	Cable tray (150mm width) Make: Custom to be approved by SCL			

Specification for Stage Lighting

Item Specifications -VI

Sl. No	Specifications	Compliance (Yes /No)	Offered Specifications	Re
1	300W LED Profile Spot light complete with beam shaping shutters, low weight PVC die casted body, DmX Control, Manual option, LCD			

	<p>display, CRI & TLCI above 90 provided with LED engine & lens compartment, hook clamp, safety bond</p> <p>Optics - 19 deg, 36 deg, 50 deg. and 26 deg.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			
2	<p>200W LED Fresnel fixture: made up of Extruded aluminium, Zoom in and out arrangement provided with manual & DmX control options, black powder coated body, output of 40,000 lux at 2mtrs with hook clamp and safety bond.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			
3	<p>RGBW LED Par 12x10W 4 in 1 to create excellent colour mixing effects on stage having RGBW individual controls through DmX & manual. Fixture provided with beam</p>			

	<p>angles 25 degree or 45 degree as per approved with hook clamp and safety bond.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			
4	<p>LED Cyclorama Lights 108 LED Lamp sources to illuminate the cyclorama, yoke mount having control through DmX and manual IP65 rating body</p> <p>Accessories: Hook Clamp and Safety chain.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			
5	<p>Stage Illumination Blinder light 2x100W LED source complete with DmX control, manual control, inbuilt pre-sets for effect, strobe function and dimming curve effects provided with Hook clamp and Safety Chain.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			

6	<p>200W LED Moving Head Spot light provided with inbuilt gobos, smooth movement Pan and tilt functions 16 bit resolution, high bright output, colour wheel dual prism modes and DmX control</p> <p>Make: Leksa/Robe / Clay Paky or equivalent</p>			
7	<p>Specification for DmX control equipment</p> <p>Stage Lighting Control Equipment providing and Installation of Lighting Controller 2048 Channels & 8 Channel splitter unit along with DmX connectors for all lights with RJ 45 port, DMX Input, Channel Faders, Supply voltage: 220 - 240 V DC, USB Port, With programmable memory.</p> <p>Make: Leksa/ETC/Selecon or equivalent</p>			

8	Specification for Lighting Accessories			
9	Wiring for stage luminaries: Supply and wiring of stage luminaries with 3 core 2.5sq.mm flexible cable run inside the Cable tray with Termination at the Power Control Panel for 60 points. Make: Leksa or equivalent			
10	Supply and fixing 16/20 A 3 pin CEE plastic molded sockets with plug in custom made MS boxes including painting. Make: Osram/GE/Philips or equivalent			

11	<p>Cable Trays provided from Electrical panel backside stage to lighting bars, side light points & FoH bar area using 300mm Cable trays & 100mm Cable trays along with lid arrangement.</p> <p>Make: Osram/GE/Philips or equivalent</p>			
12	<p>Motorized system for Lighting Bar with multi reduction heavy duty gear box of length 8m, with suitable motor, including break (electro magnet) suitable capacity 440 Volts A.C 10 Amps, assembled with angle iron frame, winding drum, auto up and down system, roller guides with sealed bearing for smooth running, linked with tested quality steel rope, locked with U clamp, connecting to the gang plate including painting, erection assemble.</p> <p>Make: Leksa or equivalent</p>			

13	<p>Motorized FOH lighting bar triangular truss or dual construction bar of length 8m suspended from the ceiling and supported by motorized system.</p> <p>Make: Leksa or equivalent</p>			
14	<p>Control Panel To control all the motors of lighting bar and curtain tracks in the enclosure made with M.S. Sheet fabricated finished with powder coat, facility with bus bar, up and down stop push button, power good, power trip, limit switch, key switch with line monitor with sensor for high voltage, low voltage, RYB indicator, suitable MCB with lock, wall mounting system.</p> <p>Make: Leksa or equivalent</p>			
15	<p>Power distribution & Miniature circuit breaker panel with 125A MCCB</p>			

	<p>incomer rating of reputed make, 48 way 10A MCB protection for outgoing circuitry, required glands, Spare MCB's for splitter and controller points and indication LED's.</p> <p>Make: Leksa or equivalent</p>			
16	<p>Grid frame by 40mmx40mmx5mm sq. Tubular or 50x50x3mm stage grid channel of c profile duly powder coated with matt black texture finish paint fabrication erection / fixing all side wall. By Anchor Bolt with M.S. Plate Suspended from roof ceiling by 1 x1 Mtr equal section for a size of 6 Mtrs x 11 Mtrs along with suspenders. Side ladder based structure or light extender units to be added for at least 6 locations.</p> <p>Make: Leksa or equivalent</p>			

17	<p>Scope of Service:</p> <p>Providing skilled & unskilled Labor, supervisors, erection tools & tackles, testing tools & equipment, supplies, consumables and hardware installation of all the equipment/system covered in the scope of the tender including detailed engineering, testing, commissioning etc. for timely and efficient execution of the work as per Contract Agreement.</p>			
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Vendor Specified Terms

Description	Vendor Terms
<p>1.1 For imported stores, prices shall be quoted on FCA nearest International airport basis.</p> <p>1.2 For indigenous stores, prices shall be quoted on F.O.R destination basis i.e. SCL, S.A.S. Nagar, Mohali, Punjab exclusive of taxes as may be applicable.</p> <p>1.3 For indigenous stores, please indicate the rate of GST /any other Govt levy as applicable.</p> <p>1.4 Purchaser is eligible for concessional CGST of 2.5 % and IGST of 5 % as per Ministry of Finance, Department of Revenue, Notification Nos.</p>	

45/ 2017 Central Tax (Rate) and 47/2017 Integrated Tax (Rate) both dated 14th November, 2017 respectively. The necessary exemption certificate will be provided by the Purchaser for the items covered under the said notification.

1.5 The prices of the indigenous items shall also be exclusive of transit insurance which shall be arranged by the Purchaser and shall be to Purchaser account.

1.6 For imported materials, the Purchaser is eligible to issue Customs duty exemption certificate (CDEC) to the contractor under customs notification no.51/96 dated 23.07.1996 and subsequent amendments to enable the contractor to avail off the benefit of concessional rate of customs duty under this notification. CVD under this notification is nil. In addition to the above CDEC, any documentary support requested by the contractor from the purchaser for customs clearance of goods against the above CDEC shall be provided by the purchaser.

2. SECURITY DEPOSIT:

On acceptance of the tender, the Contractor shall submit security deposit for ten percent (10 percent) value of the Purchase Order (PO) within 15 days from the date of PO towards successful execution of the PO. Security Deposit shall be submitted through Demand Draft / Bankers Cheque/ fixed deposit receipt or Bank Guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value, and shall be valid for a period of sixty (60) days beyond the date for completion of the Purchase Order.

(This will be returned by SCL immediately on execution of the PO satisfactorily as per order terms. If not, the amount will be forfeited).

3. DELIVERY AND INSTALLATION SCHEDULE:

The time allowed for Supply, Installation, Testing and Commissioning for entire work shall be 4 months from the 7th day of issue of purchase order by SCL as specified in tender specifications.

4. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of thirty six (36) months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 38 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 38 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 36 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) PERFORMANCE BANK GUARANTEE:

To fulfil guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall furnish a Bank Guarantee (as per format given by purchaser) from any scheduled bank/ bank approved by the Purchaser for an amount equivalent to 10% of the value of the Contract and shall be valid for a period of 60 days beyond the expiry date of warranty period. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g) All the replacement stores shall also be guaranteed for a period of 36 months from the date of arrival of the stores at purchasers site.

(h) Even while the 36 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 38 months referred to in clause 6 (b) & (c) shall be the asked for guarantee period plus two months.

5. INSTALLATION, COMMISSIONING AND TRAINING:

5.1. Installation as per Purchasers tendered specifications shall be carried out by the Contractor at Purchasers site at S.A.S. Nagar, Punjab, India at no extra cost to the purchaser. The contractor shall provide in advance guidelines for preparation of the installation site and list of items to be supplied by the Purchaser during installation. On receipt of intimation from the Purchaser, the Contractor shall depute its engineer(s) to the Purchasers site to carry out installation and commissioning and will demonstrate the functionality of the tendered equipment to Purchasers specifications as per the Scope of Installation, Testing and Commissioning and Acceptance Criteria given in Technical specifications sheet. The Contractor shall be responsible for any loss/damages sustained due to delay on the part of the Contractor to send its engineer for installation and commissioning.

5.2. TRAINING:

The vendor shall provide on-site comprehensive training to the concerned SCL personnel as specified in the tender specifications.

6. SUPPLY OF SPARES AND SERVICES:

The contractor shall guarantee supply of spares and services support for a period of at least seven (07) years post installation of the equipment. In the event of breach of this commitment on the part of the Contractor, Purchaser reserves the right to take appropriate measures including legal action claiming suitable compensation etc.

The bidder shall also quote for the following:

i) Itemized quote for recommended spares required for one year of

<p>operation.</p> <p>ii) Post warranty comprehensive AMC charge (including spares) for five years.</p> <p>The quote for the above shall be uploaded as a separate pdf file under tab Supporting documents from vendors (Commercial).</p> <p>(However it may please be noted that prices of items at Sr. No. i) to ii) above are for reference purpose only and shall not be considered for commercial evaluation of bids).</p>	
<p>7. NEW MACHINE CERTIFICATE:</p> <p>The contractor shall submit a certificate along with the equipment as well as with the documents for claiming payment indicating the date of manufacture and certifying that the equipment supplied is brand new equipment and not used/refurbished/remanufactured/reconditioned equipment.</p>	
<p>8. TERMS OF PAYMENT IN CASE OF OVERSEAS SUPPLIER[S]:</p> <p>8.1 Being a Department of the Government of India, the normal terms of payment are by Sight Draft. The payment shall be remitted as under:</p> <p>90% of the value of the materials supplied shall be paid within 30 days of the receipt of the materials at purchaser site and the balance 10% amount shall be payable on successful installation, commissioning and acceptance of the equipment at Purchaser site against an Acceptance Certificate to be issued by the Purchaser.</p> <p>8.2 While the purchasers bank charges shall be borne by the purchaser, the contractor shall bear the bank charges payable to his banker.</p>	
<p>9. TERMS OF PAYMENT IN CASE OF INDIGENOUS SUPPLIER[S]:</p> <p>90% of the value of the materials supplied shall be paid within 30 days of the receipt of the materials at purchaser site and the balance 10% amount shall be payable on successful installation, commissioning and</p>	

<p>acceptance of the equipment at Purchaser site against an Acceptance Certificate to be issued by the Purchaser.</p> <p>While the purchasers bank charges shall be borne by the purchaser, the contractor shall bear the bank charges payable to his banker.</p>	
<p>10.1. ADDRESS OF INDIAN AGENT, if any</p> <p>10.2. PERCENTAGE OF AGENCY COMMISSION, if any</p>	
<p>11. VALIDITY:</p> <p>The tender must be valid for a minimum period of 120 days from the date of opening of bids.</p>	
<p>12. MODE OF DESPATCH:</p> <p>For foreign orders, generally stores should be despatched through Indian Flagged Vessel / Air India or through any other Agency nominated by the purchaser whose contact details shall be indicated in the purchase order.</p> <p>A copy of the invoice and packing list should invariably be kept inside each of the packages.</p>	
<p>13. INSURANCE OF THE STORES:</p> <p>Transit insurance wherever necessary, will be arranged by the Purchaser. The necessity or otherwise of insurance will be as indicated in the Purchase Order/Contract.</p>	
<p>14. TECHNICAL DOCUMENTATION:</p> <p>The vendor shall provide Soft copy of technical documentation covering operation, maintenance and schematic as specified in the</p>	

<p>technical specifications.</p> <p>Technical documentation shall include safety operating procedure.</p> <p>All documentation shall be in English language only.</p>	
<p>15. DELAY IN COMPLETION/LIQUIDATED DAMAGES:</p> <p>If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the purchaser shall recover from the Contractor as liquidated damages a sum of one-half of one percent (0.5 percent) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10 percent) of the Contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.</p> <p>Delivery of stores shall be complete on Installation, commissioning, Testing and Acceptance.</p>	
<p>16. PACKING & FORWARDING:</p> <p>The Contractor shall pack and crate all stores for air/sea/road shipment as applicable in a manner suitable for export to a tropical humid climate, in accordance with internationally accepted export practices and in such a manner so as to protect it from damage and deterioration in transit by road, rail, air or sea. The Contractors shall be responsible for all damages due to improper packing.</p>	
<p>17. ARBITRATION:</p> <p>If at any time any question, dispute or difference whatsoever shall arise between the purchaser and the Contractor upon or in connection with this Contract, either party may forthwith give to the other notice in writing of the existence of such question, dispute or difference and the same shall be referred to the adjudication of two arbitrators, one to be nominated by purchaser, other by a Contractor and in the event</p>	

<p>of any difference of opinion, the arbitrators will refer the matter to the umpire. The arbitration shall be conducted in accordance with the rules and procedure for arbitration of the International Chamber of Commerce at Paris. The expenses of the arbitrators and umpire shall be paid as may be determined by them. However, the venue of such arbitration should be in India.</p> <p>In case of dispute arises with domestic/Indian suppliers, the applicable Arbitration procedure shall be as per Indian Arbitration & Conciliation Act, 1996.</p>	
<p>18. APPLICABLE LAW:</p> <p>The Contract shall be interpreted, construed and governed by the laws of India.</p>	
<p>19. Any Other Term:</p>	

Supporting Documents from Vendor

Attachment - I:

Attachment - II:

Price Bid Form

Item Description	Slab Range	Qty	UOM	Currency	Unit Price
Supply, installation, testing and	-	1	Lot	-	-

commissioning of Audio-Visual works (AV) and stage lighting in the Auditorium Building at SCL AV in Auditorium					
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Break-up of other taxes and other costs should be specified in respective narration columns.

Sum of these Break-up values should be specified in respective value columns.

Supporting Documents from Vendor (Commercial)

Document attachment with price bid

Attachment - I:

Attachment - II: