



## Semi-Conductor Laboratory

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### **PUBLIC TENDER NOTICE** **Ref. No. P&S/R&QA/ 2009/25**

Semi-Conductor Laboratory (SCL) engaged in the design, development and manufacture of VLSIs at its facility at S.A.S. Nagar (Mohali), Punjab, invites bids for Supply , Installation and Commissioning of the following equipment.

Tender Reference Number	Item Description	Qty (Nos.)	Schedule of Pre-Bid Conference Date & Time	Last date of receipt of sealed bids, Date & Time	Schedule of Opening of Part-1 "EMD" and Part-2 "Technical" Date & Time
P&S/2009/R&QA/39	Electro-dynamic Vibration Test System	01	March 03, 2010 at 1200 hours	March 22,2010 by 1500 hours	March 22, 2010 at 1600 hours

The "Tender Document" comprising of Public Tender Notice, Request for Proposal (RFP) and Technical Specifications of the abovesaid equipment shall remain on our Website till March 22, 2010.

Interested OEMs or their authorized Representative are requested to download the abovesaid documents for the abovesaid equipment and are also requested to advise by e-mail/fax at the e-mail ID/fax no. given above their particulars including their company profile and Installed base of the equipment they want to bid for. Vendors downloading Tender Documents from SCL / ISRO websites are required to provide a demand draft of Rs. 208/- towards Tender Document fee for the tendered equipment alongwith their bid.

With a view to provide clarifications, if any, on the technical and commercial aspects of the RFP to the prospective bidders, SCL shall hold a Pre-Bid meeting at its premises at S.A.S. Nagar (Mohali), Punjab as per schedule indicated above. In light of the abovesaid objective of the Pre-bid conference, prospective OEMs must ensure that they or their authorized representatives attend the same as per the above given schedule.

Before submitting the bids, all the prospective bidders are advised to go through the minutes of proceedings of the Pre-bid meeting which shall be placed at SCL's website and take the clarifications/modifications/changes (if any) mentioned therein into account while submitting the bids.

The bids shall be submitted by OEMs or their authorized representatives only in accordance with the instructions and the 'Procedure for Submission of Bids' given in the "RFP" and should reach SCL, S.A.S. Nagar no later than the last date and time indicated above.

SCL takes no responsibility for the delay or loss in transit of any document related to this Public Tender Notice. SCL reserves the right to procure all the abovesaid equipment or defer or cancel the abovesaid Tender without assigning any reason thereof.

Sr. Head, Purchase & Stores Division

## SEMI-CONDUCTOR LABORATORY (SCL)

### REQUEST FOR PROPOSAL (RFP)

The prospective vendors are requested to go through all the PARTS (A-G) of this document carefully and submit their bids in accordance with the 'General instructions to Bidders' 'Procedure for submission of Bids' and 'Commercial & other Terms and Conditions' given herein.

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PART-A

GENERAL INSTRUCTIONS TO BIDDERS

1.	<u>General Conditions:</u>
a)	This document should be read in conjunction with the Public Tender Notice and the specification sheet of the tendered equipment.
b)	Original Equipment Manufacturer (OEM) or their authorized Indian Representative can submit the bid to SCL. Where authorized Indian Representative is submitting the bid on behalf of his foreign Principal, the said Representative should provide SCL an authorization letter in the current date in advance from his foreign principal authorizing the said agent to submit the bid to SCL failing which the bid submitted by the Indian Representative shall not be considered.
c)	Bids received on fax/e-mail and unsealed bids shall be treated as invalid and shall be rejected.
d)	Bids in English should be submitted with a covering letter on bidder's letter head duly signed by the authorized signatory of the bidder.
e)	All correspondence and documents must bear SCL's Tender reference number.
f)	SCL is not responsible for the loss/delay in transit of any bid/any document related to this Tender.
g)	Late and delayed bids shall not be considered.
h)	SCL reserves the right to accept the lowest or any other bid in whole or in part without assigning any reason(s).
i)	SCL reserves the right to reject the lowest or in part any bid or all bids without assigning any reason(s).
j)	All documents including bid, specifications, schedule notices, correspondence, operating and maintenance instructions / drawing etc. shall be in English language.
k)	The vendors are required to give detailed price break-up for the tendered equipment such as basic price, excise duty and other taxes, if applicable.
l)	Bids should be in conformity with the RFP requirements / technical specifications mentioned therein. Exclusions / deviations should be separately listed out by the bidder and shall be given with 'Part -2'. marked 'Technical'.
m)	Bidders are expected to comply with 'Commercial and other Terms & Conditions' given in Part -B of this RFP. In case of any deviation, the reasons thereof should be clearly specified in the compliance/response column of PART-B.
n)	Bidder shall sign all pages of the Part-2 marked 'Technical and Unpriced Commercial Offer' and Part-3 marked 'Priced Commercial Offer'. Bidder shall initial corrections/overwriting(s) if any. In case of any discrepancy between rates mentioned in figures and words, the rates whichever are less shall prevail.

	In case of any discrepancy between rates mentioned in the unit price column and amount column, the correct amount after multiplying unit rate with quantity shall prevail.
o)	The authority of persons signing the bid, if called for, shall be produced by the bidder.
p)	The Indian Representative of the bidders who are deputed to attend the opening of 'Part-1', 'Part-2' and 'Part-3' of the bids should have an authorization from the bidder to attend the same.
2.	<p><b><u>Pre-Bid Meeting:</u></b></p> <p>A Pre-bid meeting shall be held with the prospective bidders as per schedule given in the Public Tender Notice at Semi-Conductor Laboratory, S.A.S. Nagar (Mohali), Punjab to clarify technical/commercial queries of the bidders, if any, relating to the specifications of the equipment covered by this vendor and commercial and other Terms and Conditions of this Tender Document. The prospective bidders must, therefore, ensure that they or their authorized representatives attend the said pre-bid conference at SCL as per the given schedule.</p> <p>In order to enable meaningful discussions in the Pre-bid meeting, the prospective bidders are requested to list the queries/clarifications planned to be sought by them on this Tender Document and the technical specifications in the Pre-bid meeting, in a "Query Sheet" given at PART- E of this Tender Document. These Query Sheets shall be discussed and the clarifications sought therein shall be provided during the Pre-bid meeting. The prospective bidders are requested to send us the said Query Sheets listing their questions, if any by email/ fax in advance to reach us at least two days before the Pre-bid meeting.</p> <p>No queries/clarifications shall be entertained after the Pre-bid meeting and the bidder(s) shall be required to submit their bid(s) as per schedule given in the Public Tender Notice.</p> <p>Before submitting the bid, all the prospective bidders are requested to go through the minutes of proceedings of the Pre-bid meetings which shall be placed at SCL's website and take the clarifications/ modifications/changes (if any) mentioned therein into account while submitting the bid.</p>
3.	<p><b><u>Tender Document Fee:</u></b></p> <p>If the Tender Documents comprising of Public Tender Notice Technical Specifications and RFP have been downloaded from SCL/ISRO website, bidders are required to submit a bank draft (non refundable) for Rs. 208/- or equivalent in foreign currency alongwith EMD in the envelope marked 'Part-1 - EMD '.</p> <p>If the Tender Documents are required by the prospective bidders to be sent by post, bidders are required to submit a bank draft (non-refundable) for Rs.308/- or equivalent in foreign currency alongwith their request for Tender</p>

	<p>Documents. Both the above Drafts should be drawn in favour of Semi-Conductor Laboratory payable at Mohali/Chandigarh and shall be valid for a period of six months.</p> <p>Bidders are also advised to provide their complete address, telephone number, fax no. and email ID etc.</p>
4.	<p><b><u>Earnest Money Deposit (EMD):</u></b></p> <p>The envelope marked 'Part-1 EMD' besides Tender Document Fee shall contain the following:</p> <p>A bank draft of US Dollar 1000.00 (US Dollar One thousand only) or equivalent Indian rupees towards Earnest Money Deposit (EMD) drawn in favour of Semi-Conductor Laboratory, payable at Mohali / Chandigarh and valid for a period of six months.</p> <p>The Earnest Money Deposit of the selected bidder shall be retained till the execution of the contract including warranty. In all other cases, it will be refunded within three months of finalisation of the contract. Such earnest money as retained will be forfeited by SCL in the event of non-compliance of the selected bidder with any of the Terms and Conditions of the Contract or the contractor's failure to execute the contract.</p> <p>No interest will be payable by SCL on the above EMD.</p> <p>Submission of EMD by way of a Bank Guarantee or bill of Exchange shall not be accepted.</p> <p>No request for waiver of EMD shall be entertained.</p> <p>Bid(s) not complying with the EMD clause shall not be considered and shall be rejected.</p> <p>Only Small Scale Industries (SSI) registered with NSIC, Government of India are exempted from submission of EMD and Tender Document fee. To avail of the exemption from EMD and Tender Document Fee, such bidders are required to submit a copy of SSI and NSIC registration certificate in advance to SCL failing which their bids shall not be considered.</p>
5.	<p><b><u>INSTRUCTIONS ON INDIAN AGENT (IF ANY) :</u></b></p> <p>Bidders are required to provide the following information in respect of their authorized Indian Agent, if any, along with 'Part-2' marked 'Technical' as the same is mandatory and is required for consideration of the bid.</p> <p>i) Name, Address, Tel. No./Fax No./ email of the Indian Agent including the contact person.</p>

	<ul style="list-style-type: none"> <li>ii) A letter from the O.E.M in the current date certifying that the company at Sr. No. 5 (i) above is their authorized Indian Agent and also indicating the responsibilities/ role of the Indian agent under the proposed bid.</li> <li>iii) Remuneration / Service Charges payable to the Indian Agent under the proposed bid.</li> <li>iv) It is understood and agreed to between SCL and the bidder that the agent specified in the bid is the only agent involved under the proposed bid and the remuneration / service charge specified in the bid is the only remuneration/service charge involved and is payable only in Indian Rupees for the Indian Agent. Payment of such remuneration/ service to the Indian Agent in the foreign currency or any payment by the bidder to any undeclared third party related to this Tender shall be deemed illegal and all consequential liabilities shall be to the account of the bidder.</li> </ul>
6.	<p><b><u>PROCEDURE FOR SUBMISSION OF BIDS:</u></b> The bid for the tendered equipment shall be submitted in following three sealed envelopes as per the instructions given below:</p>
a)	Envelope marked 'Part-1 – EMD' to contain Bank Drafts towards Tender Document Fee and Earnest Money Deposit separately as detailed above at Point No. 3 & 4.
b)	<p>Envelope marked 'Part-2 – Technical' to contain Technical Offer, unpriced commercial offer as per details given below:</p> <ul style="list-style-type: none"> <li>i) Technical offer comprising of compliance / response to detailed technical specifications forming part of the tender.</li> <li>ii) Unpriced Commercial Offer including bidder's compliance / response to SCL's commercial and other terms &amp; conditions as per part B of this RFP.</li> <li>iii) Complete product literature along with list of options and available / planned upgrades.</li> <li>iv) Installed base of the equipment offered with the names and addresses of the users.</li> <li>v) Requirements to be fulfilled by SCL, if any, for installation, commissioning and testing.</li> <li>vi) Acceptance Test Procedure.</li> <li>vii) Post Warranty Service / Support Policies.</li> <li>viii) Statement of Bid compliance (as per proforma enclosed at Part F).</li> <li>ix) A copy of latest audited annual accounts.</li> <li>x) Details of Indian Agents as per Clause No. 5 above.</li> </ul>
c)	<p>Envelope marked 'Part-3 – Commercial' to contain the 'Priced Commercial Offer' indicating prices as under:</p> <ul style="list-style-type: none"> <li>i) Basic price of the Tendered Equipment with respect to each functionally as described in SCL's equipment specification.</li> <li>ii) Detailed list with price and quantity item wise for recommended</li> </ul>

	<p>essential spares and consumables for five years of operation for the tendered equipment to maintain the uptime as specified in Sr. No. 4 of Part B (format for Compliance / response to commercial and other terms &amp; conditions) in the respective 'Priced Commercial Offer'.</p> <p>iii) Quote for Post Warranty 'Labour Only' AMC per year for a period of seven years after the expiry of the warranty for the tendered equipment in the respective Priced Commercial Offer.</p>
D)	The sealed envelopes 'Part-1 - EMD', 'Part-2 - Technical' and 'Part-3 - Commercial' should be put in a single envelope for the tendered equipment which should also be sealed and superscribed with the Tender reference no., due date and time. The above individual sealed envelopes should also be superscribed with Tender reference no., due date and time.
E)	Inner and outer envelopes shall indicate the name and address of the bidder.
F)	<p>The bid for the tendered equipment submitted as above shall be sent at the following address and should reach SCL, S.A.S. Nagar, Punjab, India no later than the last date and time of submission of sealed bids as indicated in the Public Tender Notice.</p> <p>Sr. Head, Purchase &amp; Stores, Semi-Conductor Laboratory, Department of Space, Government of India, Sector-72, S.A.S. Nagar, Punjab-160 071, India. Phone: +91-172-2237401to 409, Fax: +91-172-2237410 Email: <a href="mailto:hps@sclchd.co.in">hps@sclchd.co.in</a></p>
G)	<b>Bids which are not submitted in accordance with the procedure given above are liable to be disregarded.</b>
7.	<p><b><u>BID OPENING:</u></b></p> <p>The envelopes marked 'Part-1 - EMD' and 'Part-2 - Technical', shall be opened as per schedule indicated in the Public Tender Notice at SCL, S.A.S Nagar, Punjab, India, in the presence of the bidders / their authorized representatives who wish to be present. The bidders are, therefore, requested to visit or depute their authorized representatives to SCL, S.A.S. Nagar (Mohali), Punjab, India to attend the said bid opening as per the schedule given in the Public Tender Notice.</p>
8.	<p><b><u>COMMERCIAL OFFER OPENING:</u></b></p> <p>The envelopes marked 'Part-3 - Commercial' shall be opened of only technically qualified bidders in the presence of the technically qualified bidders/their authorized representatives who may like to attend the bid opening.</p>

	The schedule of opening of 'Part 3 – Commercial' shall be intimated to the technically qualified bidders separately.
9.	The authorized representatives of the bidders who are deputed to attend the Pre-bid conference, opening of Technical and Commercial offers should have an authorization letter from the bidder to attend the same.
10.	<p><u>EXTENSION IN THE LAST DATE OF SUBMISSION OF BIDS:</u></p> <p>Based on the response to the Public Tender Notice, SCL reserves the right to extend the last date of submission of bids and to reschedule the opening of 'Part 1 – EMD' and 'Part 2 - Technical'.</p>
11.	<p><u>Verification:</u></p> <p>SCL reserves the right to verify all claims made by the bidder.</p>

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**PART-B**

Please find below SCL’s proposed **COMMERCIAL AND OTHER TERMS & CONDITIONS** pertaining to this RFP. Bidders are advised to give their Compliance / Response to SCL’s proposed **COMMERCIAL AND OTHER TERMS & CONDITIONS**. This format is to be submitted **AS PART OF ‘TECHNICAL & UNPRICED COMMERCIAL OFFER’** (‘Part-2 marked Technical’).

**Definitions:**

- a) The term ‘Purchaser’ shall mean ‘Semi-Conductor Laboratory’ , Department of Space.
- b) The term ‘Contractor’ shall mean the person, firm or company with whom or with which the order for supply of the stores is placed and shall be deemed to include the Contractor’s heirs, executors and administrators unless excluded by the contract.
- c) The term ‘Purchase Order’ shall mean the authorized communication intimating the acceptance on behalf of the purchaser of the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant or machinery 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.

Format for compliance/response to Purchaser’s proposed commercial and other terms & conditions. ( write your compliance/response and do not leave blank.)		
SR.	TERMS	BIDDER’S COMPLIANCE/RESPONSE
1.	<p>For Imported equipment, prices shall be quoted on FOB/FCA nearest international air port basis as per list of International Airport given in Part G.</p> <p>For Indigenous equipment, prices shall be quoted on F.O.R SCL, S.A.S Nagar (Mohali) basis exclusive of Government levies, taxes, duties as may be applicable. The rates at which the said Government levies taxes, duties are applicable shall be indicated separately. The prices of the indigenous items shall also be exclusive for transit insurance which shall be arranged and borne by Purchaser.</p>	
2.	Prices shall be indicated only in ‘Part 3’ marked ‘commercial’.	

<p>3.</p> <p>3.1</p>	<p><b>WARRANTY:</b></p> <p>The Contractor shall provide for the tendered equipment comprehensive warranty for parts as well as labour for a period of 12 months from the date of successful installation, commissioning and testing of the equipment at Purchaser's site at no extra charges against any manufacturing defect/faulty workmanship. In case any defect arises during warranty period, the Contractor should replace/rectify the same at its own cost at site/works.</p> <p>During warranty, the vendor shall provide the following for the tendered equipment :</p> <ul style="list-style-type: none"> <li>• One Preventive Maintenance (PM) visit for the tendered equipment.</li> <li>• Emergency/breakdown visits as and when required. The Contractor shall indicate the minimum response time to attend to breakdowns.</li> <li>• All expenses on the visit(s) of the Contractor's engineer such as to-and-fro travel costs, local transportation, boarding and lodging etc. during warranty shall be borne by the Contractor.</li> </ul>	
<p>3.2</p>	<p><b>GUARANTEE AND REPLACEMENT:</b></p> <ul style="list-style-type: none"> <li>• The contractor shall submit a written guarantee that the equipment supplied comply fully with the specifications laid down for material, workmanship and performance.</li> <li>• For a period of 12 months after the commissioning and acceptance of the stores at Purchaser's site, if any, defect(s) discovered therein are found to have developed under proper use arising from faulty materials, design or workmanship, contractor shall remedy such defect(s) 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 part thereof are faulty.</li> </ul>	

	<ul style="list-style-type: none"> <li>• Should the contractor fail to rectify the defect(s), 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 equipment.</li> <li>• The decision of the Purchaser, notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Contractor, regarding defective parts wherein any defect has developed within the said period of 12 months as to whether the nature of the defect(s) requires repair or replacement shall be final, conclusive and binding on the contractor.</li> </ul>	
3.3	Warranty Replacements:	
	<ul style="list-style-type: none"> <li>• If in the opinion of the purchaser it becomes necessary to replace or repair defective equipment during the warranty period, such replacement or repair 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 within a period of 14 months from the date of acceptance thereof.</li> <li>• All replacement parts during the warranty period shall be supplied by the Contractor, free-of-cost with freight and insurance upto Purchaser's site at S.A.S. Nagar, Punjab and customs duty applicable in India to the Contractor's account including compliance with the customs procedure in India. The indigenous replacement parts, if any, shall be supplied by the Contractor free of cost on F.O.R. Purchaser's site at SAS Nagar, Punjab basis.</li> <li>• All defective parts including the imported parts shall be returned by Purchaser to the Contractor, if requested, on 'Freight to pay' basis.</li> </ul> <p>All the replacement equipment shall be warranted by the Contractor for a period of 12 months from the date of arrival of such Stores at Purchase's site.</p>	
4.	<p>UPTIME:</p> <p>The Contractor shall guarantee an Uptime of</p>	

	<p>90% during the warranty period on the basis of 24 hours working, 7 days a week.</p> <p>In the event of contractor's failure to maintain the above Uptime, the warranty period shall be extended by the period in excess of the allowable downtime.</p>	
5.	<p>POST WARRANTY SERVICE/SUPPORT ;</p> <p>The contractor to quote Post Warranty 'Labour Only' AMC per year for a period of 5 years separately after the expiry of the warranty period for the tendered equipment along with their Post Warranty Service/Support policy.</p>	
6.	<p>TERMS OF PAYMENT</p> <p>SCL's proposed payment terms for foreign vendors:</p> <ul style="list-style-type: none"> <li>An irrevocable letter of credit (LC) shall be opened for 100% value of the purchase order in favour of the contractor. 85% of the LC value shall be payable after shipment of the equipment on presentation of shipping documents to bank with a usance period of 30 days and balance 15% of the LC value shall be payable under the same LC upon successful Installation, commissioning and acceptance of the equipment at the Purchaser's site against a Performance Bank Guarantee for the like amount to be submitted by the contractor which shall be valid till the expiry of the warranty period.</li> </ul> <p>In the event of the contractor not being able to provide the Performance Bank Guarantee the payment of balance 15% amount shall be made after the expiry of the warranty period.</p> <ul style="list-style-type: none"> <li>Indian agent's remuneration / service charge shall be payable by the Purchaser directly to the Indian agent in Indian Rupees based on T.T buying rate of exchange prevailing on the date of placement of purchase order within 30 days of</li> </ul>	

	<p>acceptance of equipment at purchaser's site.</p> <ul style="list-style-type: none"> <li>• No advance payment shall be made and 100% amount shall not be payable on shipment of the equipment.</li> <li>• All bank charges outside India related to the LC shall be borne by the Contractor and all bank charges in India related to the LC shall be borne by the purchaser.</li> <li>• All LC extension charges in the LC referred to above beyond the agreed upon delivery period or the amendments to be made in the LC for reasons attributable to the contractor shall be to the contractor's account.</li> </ul>	
7.	<p>The Letter of Credit will be operative on presentation of the under mentioned documents and all documents should bear contract reference number and date:</p> <ul style="list-style-type: none"> <li>a) Original of Airway Bill which should be issued by Purchaser's designated freight forwarder.</li> <li>b) Commercially certified invoices describing the equipment delivered, quantity, unit rate and their total value, in triplicate.</li> <li>c) Packing list showing individual dimensions and weight of each packages.</li> <li>d) Country of origin certificate as referred to at Clause no. 20.</li> <li>e) Test Certificates as specified in the Contract.</li> <li>f) Declaration by the Contractor that the total contents in all packages/crates are not less than those entered in the invoices and the quality of the equipment is guaranteed as per specifications asked for by the Purchaser.</li> <li>g) Warranty and Guarantee Certificate vide Clause No. 3 above.</li> <li>h) New Machine Certificate as referred to in Clause No. 19.</li> </ul>	

	i) Calibration Certificate as referred in Clause No. 14.	
8.	<p>SCL's proposed payment terms for indigenous vendors:</p> <ul style="list-style-type: none"> <li>85% of the value of the equipment supplied shall be paid within 30 days of the receipt of the equipment at SCL, S.A.S. Nagar, Punjab. Balance 15% of the value of the equipment shall be payable upon successful Installation, commissioning and acceptance of the equipment at the Purchaser's site against a Performance Bank Guarantee for the like amount to be submitted by the contractor which shall be valid till the expiry of the warranty period.</li> </ul> <p>In the event of the contractor not being able to provide the Performance Bank Guarantee the payment of balance 15% amount shall be made after the expiry of the warranty period.</p> <ul style="list-style-type: none"> <li>No advance payment shall be made and 100% amount shall not be payable on dispatch of equipment.</li> <li>The charges for commissioning, if any, shall be paid after deduction of Income Tax at source as per Indian Income Tax Act, 1961.</li> <li>For payments in respect of indigenous equipment, commissioning, bank charges, if any, payable to SCL's banker shall be borne by the Purchaser and bank charges, if any, payable to the Contractor's banker shall be borne by the Contractor.</li> </ul>	
9.	<p><b>DELIVERY PERIOD</b></p> <p>The purchaser expects the delivery of the equipment within 10 to 12 weeks from the date of release of the purchase order. The bidder to specify minimum delivery period inclusive of all Govt. formalities of the exporting country.</p> <p>However, no price advantage shall be given for earlier delivery.</p>	
10.	<p><b>PRE-DESPATCH INSPECTION AND ACCEPTANCE:</b></p> <p>The contractor shall provide the details of Acceptance Test Procedure for the tendered</p>	

	<p>equipment as part of their proposal to Purchaser. The equipment shall be accepted at Purchaser's Facility as per mutually agreed Acceptance Test Procedure. Pre-shipment inspection may be done at Contractor's premises at Purchaser's option. However, final acceptance of the tendered equipment shall be done at Purchaser's Facility after installation.</p>	
11.	<p><b>INSTALLATION AND COMMISSIONING:</b></p> <p>Installation, commissioning, and demonstration of performance of the tendered equipment as per Purchaser's tendered specifications shall be carried out by the Contractor at Purchaser's site at S.A.S. Nagar, Punjab, India at no extra cost.</p> <p>The contractor shall provide in advance guidelines for preparation of the installation site and list of items to be supplied by Purchaser during installation.</p> <p>On receipt of intimation from the Purchaser, the Contractor shall depute its engineer(s) to the Purchaser's site within two weeks to carry out installation and commissioning and will demonstrate the functionality of the tendered equipment to Purchaser's specifications as per mutually agreed acceptance procedure. 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.</p> <p>Failure to commission the tendered equipment successfully shall entitle Purchaser to full refund of the payment made and the interest thereon. Decision regarding successful installation and commissioning shall rest solely with the Purchaser.</p>	
12.	<p><b>TECHNICAL DOCUMENTATION :</b></p> <p>The contractor shall provide two sets of technical documentation containing, but not limited to, the following:</p>	

	<ul style="list-style-type: none"> <li>• System user manuals.</li> <li>• System Hardware/Software manuals.</li> <li>• Maintenance/Diagnostic/Trouble shooting manuals including schematics, Electronic/ Electrical Circuit diagrams (Electrical &amp; Plumbing details) along with Part # for all spares.</li> <li>• OEM system/subsystem/accessories manuals</li> </ul> <p>All documentation shall be in English language.</p> <p>One set shall be sent by the contractor prior to shipment and the second set shall be sent along with the shipment.</p>	
13.	<p><b>TRAINING:</b></p> <p>For the tendered equipment, the Contractor to provide training to Purchaser's engineers on system operation, maintenance, application software and related applications for an appropriate period during installation and commissioning. The training should be extensive enough so that quick diagnosis of problems and remedial actions is possible at Purchaser's site.</p>	
14.	<p><b>CALIBRATION :</b></p> <p>The contractor shall submit a factory calibration certificate alongwith the ordered equipment as well as with the despatch documents for claiming payment. The contractor shall also provide guidelines regarding calibration procedure, frequency etc. alongwith a list of tools required for calibration.</p>	
15.	<p><b>SUPPLY OF SPARES AND SERVICES:</b></p> <p>The Contractor shall guarantee supply of spares and services for the tendered equipment for a minimum period of 7 years after the expiry of warranty period. In the event of breach of this commitment on the part of the Contractor, Purchaser reserves the right to take appropriate measures including legal claiming suitable compensation etc.</p>	

16.	<p><b>Freight Forwarder:</b></p> <p>The shipment of the tendered equipment shall be effected through Purchaser's designated Freight Forwarder only. The contact details of the Freight Forwarder shall be indicated in the relevant purchase order.</p>	
17.	<p><b>Partial Shipment:</b></p> <p>Part shipment is not allowed except with written permission of the purchaser.</p>	
18.	<p><b>EXPORT FORMALITIES, TAXES &amp; DUTIES</b></p> <p>All Licences/Government clearances other than under Indian law, if any, required for the tendered equipment shall be the responsibility of the contractor. All Licences/Government clearances under Indian law, if any, required shall be arranged by the Purchaser.</p> <p>Taxes and duties payable for supply of the tendered equipment other than in India shall be borne by the Contractor. Taxes and duties etc. payable for importation of the tendered equipment under Indian law and in India only shall be the responsibility of Purchaser.</p>	
19.	<p><b>NEW MACHINE CERTIFICATE:</b></p> <p>The contractor shall submit a certificate alongwith the tendered equipment as well as with the dispatch documents for claiming payment indicating the date of manufacture and certifying that the equipment supplied is brand new and not a used/refurbished/remanufactured/ reconditioned equipment.</p>	
20	<p><b>COUNTRY OF ORIGIN CERTIFICATE:</b></p> <p>The contractor shall submit a certificate regarding country of origin of the equipment supplied, issued by a chamber of commerce or any other Govt. authorized agency along with other documents for negotiation of the LC.</p>	
21.	<p><b>VALIDITY:</b></p> <p>The contractor's bid must be valid for 90 days from the closing date of submission of bids.</p>	

22.	<p><b>INSPECTION AND ACCEPTANCE TESTS:</b></p> <ul style="list-style-type: none"> <li>• The purchaser's representative shall be entitled at all reasonable times during the manufacture to inspect, examine and test on the Contractor's premises the material and workmanship of the equipment to be supplied under the proposed Contract and if part of the said equipment is being manufactured on other premises, the Contractor shall obtain for the Purchaser's representative permission to inspect, examine, and test as if the equipment were being manufactured on the Contractor's premises. Such inspection, examination and testing shall not relieve the Contractor from its obligation under the proposed contract.</li> <li>• For tests on the premises of the Contractor or any of his sub-contractors, the contractor shall provide free of cost assistance, labour, materials, electricity, fuel and instruments as may be required or as may be reasonably needed by the Purchaser's representative to carry out the tests efficiently.</li> <li>• When the Equipment have passed the specified test, the Purchaser's representative shall furnish a certificate to this effect in writing to the Contractor. The Contractor shall provide copies of the test certificates to the Purchaser as may be required.</li> </ul>	
23.	<p><b>Mode of Despatch</b> Equipment shall be dispatched by air to IGI Airport, New Delhi under consolidation services of Purchaser's designated freight forwarder. A copy of the packing list should invariably be kept inside each of the packages.</p>	
24.	<p><b>Port of Entry:</b> Indira Gandhi International Airport (IGI), New Delhi.</p>	
25.	<p><b>Port Consignee:</b> Purchase &amp; Stores Officer (Stores), Semi-Conductor Laboratory, Sector 72, S.A.S. Nagar (Mohali), Punjab, INDIA.</p>	

26.	<p>Ultimate Consignee: Purchase &amp; Stores Officer (Stores), Semi-Conductor Laboratory, Sector 72, S.A.S. Nagar (Mohali), Punjab, INDIA.</p>	
27.	<p>Shipping Marks: The marks on the shipping documents such as Invoice, Airway bill and on the packages should as follows:-</p> <p>Purchase Order No. _____ and date _____ Government of India, Department of Space, Semi-Conductor Laboratory, Sector 72, S.A.S. Nagar (Mohali), Punjab, INDIA. Destination : SCL, S.A.S. Nagar, Punjab, India. Port of Entry : Indira Gandhi, International Airport New Delhi.</p>	
28.	<p>INSURANCE OF STORES:</p> <p>The purchaser shall be responsible for insuring the tendered equipment for risks during transit, storage and erection/installation at Purchaser's site and insurance costs shall be to Purchaser's account. The Contractor shall, however, be responsible for notifying to the purchaser or the insurers nominated by the purchaser the complete dispatch details including the value of the consignment and other relevant data immediately after shipment to enable the purchaser or the insurers to arrange for issuance of transit insurance policy, if required. The necessity or otherwise of insurance will be as indicated in the Purchase order.</p>	
29.	<p>CONTRACTOR'S DEFAULT LIABILITY:</p> <p>The purchaser may upon written notice of default to the Contractor terminate the contract in whole or in part in circumstances detailed hereunder:</p> <ul style="list-style-type: none"> <li>• If in the judgment of the Purchaser, the Contractor fails to make delivery/ installation/commissioning of equipment</li> </ul>	

	<p>within the time specified in the contract or within the period for which extension has been granted by the Purchaser to the Contractor.</p> <ul style="list-style-type: none"> <li>• If in the judgment of the Purchaser, the contractor fails to comply with any of the other provisions of the contract.</li> <li>• In the event the Purchaser terminates the contract in whole or in part, the purchaser reserves the right to purchase/install/test/commission on such terms and in a manner as he may deem appropriate equipment similar to that terminated and the contractor shall be liable to the purchaser for any additional costs for such similar equipment and or for liquidated damages for delay as defined in Clause 34 until such reasonable time as may be required for the final supply/installation/commissioning of equipment.</li> <li>• In the event the purchaser terminates the Contract, 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 cases in the manner and as directed by the purchaser. <ul style="list-style-type: none"> <li>i) Any completed equipment.</li> <li>ii) Such partially completed equipment, drawing information and contract right (herein after called manufacturing material) as the Contractor has specifically produced or acquired for 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 materials delivered and accepted.</li> </ul> </li> </ul> <p>In the event the purchaser does not terminate the contract, 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 Clause 34 until the equipment is accepted.</p>	
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30.	<p><b>INSURANCE OF CONTRACTOR'S PERSONNEL DEPLOYED FOR INSTALLATION AND COMMISSIONING AT SCL SITE.</b></p> <p>Insurance of Contractor's personnel deployed for installation, testing and commissioning at Purchaser site shall be arranged by the Contractor and shall be Contractor's sole responsibility. Contractor shall indemnify Purchaser against any claims arising out of injury/accidents/mishaps to any of its workmen during installation of the equipment at Purchaser's site.</p>	
31.	<p><b>REPLACEMENTS:</b></p> <p>If the equipment or any portion thereof is damaged or lost during transit, the purchaser shall give notice to the Contractor setting forth particulars of such equipment damaged or lost during transit. The replacement of such equipment shall be effected by the Contractor within a reasonable time to avoid delay in the indented usage of this equipment. The price of replacement items shall be paid by the purchaser on the basis of prices indicated in the P O or as reasonably worked out from the tender. The cost of damages will however be claimed by the Purchaser from the Purchaser's insurance company.</p>	
32.	<p><b>REJECTION:</b></p> <p>In the event any of the equipment 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 equipment or request the contractor, in writing, to rectify the same. The Contractor on receipt of such notification shall either rectify or replace the defective equipment free of cost to the purchaser. If the contractor fails to do so, the purchaser may at his option either:</p> <p>j) Replace or rectify such defective equipment and recover the extra cost so</p>	

	<p>involved from the contractor, or</p> <p>ii) Terminate the contract for default as provided under Clause 29 above.</p> <p>Acquire the defective equipment at a reduced price considered equitable under the circumstances. The provision of this article shall not prejudice the Purchaser's rights under Clause 34.</p>	
33.	<p><b>FORCE MAJEURE</b></p> <p>Neither of the parties hereto shall be liable for damage or have the right to cancel for any delay or default in performing it's obligations if such delay or defaults are caused by conditions beyond it's control including but not limited to fire, storm, floods, earthquakes, acts of God, government restrictions, continuing domestic or international problems (such as wars, rebellion, insurrections, strikes, riots, work stoppages, Labour dispute) or delay as to ancillary materials, which affect the dates of fulfillment of any obligations as per the purchase order. Such dates will be respectively postponed for the period of continuance of such force majeure circumstances and the other party can suspend the performance of its obligations correlated to the postponed obligation of the affected party.</p> <p>The obligation thus postponed shall be resumed after the force majeure circumstances have ceased. At the beginning, during and at the pre-visible end of the force majeure circumstances the parties shall promptly consult with each other about appropriate counter measures to be taken.</p> <p>If the performance of obligations of any party should be delayed more than six (06) months by reasons of force majeure circumstances mentioned above, the parties shall mutually consult about the subsequent performance of obligations.</p>	

34.	<p><b>DELAY IN COMPLETION/LIQUIDATED DAMAGES:</b></p> <p>If the contractor fails to complete the supply of the equipment within the delivery period specified in the contract or any extension thereof, given by the purchaser, the purchaser shall recover from the contractor as liquidated damages a sum at the rate of one-half of one percent (0.5 percent) of the price of the equipment delayed for each calendar week or part thereof delay. The total liquidated damages shall not exceed five (5) percent of the contract price.</p>	
35.	<p><b>PACKING:</b></p> <ul style="list-style-type: none"> <li>• The contractor shall pack and crate all equipment for road/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 as to protect it from damage and deterioration in transit by road, rail, air or sea. The contractor shall be held responsible for all damages due to improper packing.</li> <li>• The contractor shall ensure that each box/unit of shipment is legibly and properly marked for correct identification. The failure to comply with this requirement shall make the contractor liable for additional expenses involved.</li> <li>• 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.</li> <li>• The contractor shall give complete shipment information concerning the weight, size content of each package etc.</li> <li>• Transshipment of the equipment shall not be permitted except with written permission of the purchaser.</li> <li>• Apart from the dispatch documents negotiated through Bank, the following documents shall also be airmailed to the purchaser within 03 days in case of air consignments.</li> </ul>	

	<ul style="list-style-type: none"> <li>i) Airway Bill (two non-negotiable copies)</li> <li>ii) Invoice (2 copies)</li> <li>iii) Packing list (2 copies).</li> <li>iv) Test Certificates (2 copies)</li> <li>v) Certificate of Country of Origin (1 copy)</li> </ul> <p>Contractor shall also ensure that one copy of the packing list is enclosed in each case / box of shipment.</p>	
36.	<p><b>ARBITRATION:</b></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 three arbitrators, one to be nominated by the Purchaser, one to be nominated by the Contractor and these two arbitrators shall appoint the third arbitrator who shall act as the presiding arbitrator. If the two arbitrators fail to agree on the appointment of the third arbitrator within 30 days from their appointment, then the procedure as laid down in the 'Arbitration and Conciliation act 1996' shall be applicable. The proceedings of arbitration shall be carried out in accordance with 'Arbitration and Conciliation Act 1996'. The expenses of the arbitrators shall be paid as may be determined by them. The venue of arbitration shall be in S.A.S Nagar, Mohali, India.</p>	
37.	<p><b>PATENT INFRINGEMENT:</b></p> <p>The Contractor shall indemnify Purchaser and hold Purchaser harmless against any damages or costs arising out of claim or action brought against Purchaser as a result of infringement of any patent by the Contractor. The Contractor at its own expense shall defend and settle any such claim/action.</p>	
38.	<p><b>COUNTER TERMS AND CONDITIONS OF SUPPLIERS:</b></p> <p>Where counter terms and conditions printed 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.</p>	

39.	<p><b>SECURITY INTEREST:</b></p> <p>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 of interest created in respect of such items by any other entity.</p>	
40.	<p><b>APPLICABLE LAW:</b></p> <p>The Contract shall be interpreted, construed, and governed by the laws of India and shall be subject to exclusive jurisdiction of civil courts at S.A.S. Nagar (Mohali), Punjab.</p>	
41.	<p><b>CANCELLATION OF CONTRACT:</b></p> <p>In the event of Contractor's failure to execute the Contract as per terms and conditions mentioned therein, Purchaser is entitled to a refund of all such advances and payments previously made to the contractor against which supplies/services have not yet been made and also reserves the right to claim compensation for the loss suffered by the Purchaser on account of Contractor's failure to execute the Contract.</p> <p>The contractor may also specify obligations if Purchaser decides to cancel the contract for reasons attributable to the Purchaser.</p>	
	<p>Signature of the vendor _____</p> <p>Name _____</p> <p>Company Seal _____</p> <p>Date _____</p>	

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## PART- C

### PROCEDURE FOR EVALUATION OF BIDS

#### Technical Evaluation Criteria

Vendors meeting the basic specifications mentioned in SCL's Technical specification sheet shall be considered to be technically qualified.

#### Evaluation of Priced Commercial Offers

The following elements shall broadly be considered for evaluation of Priced 'Commercial' offers:

1. Basic Price quoted by the bidder for meeting the functionalities as given in Purchaser's specifications sheet for the tendered equipment.
2. Compliance with the Payment Terms prescribed in this document.

In the event, the bidder offers Payment Terms more stringent than SCL's prescribed Payment Terms, the bid of the bidder shall be loaded for loss of interest taking the prevailing prime lending rate into account and better Payment Terms shall be extended equivalent advantage.

4. In the event of the bidder seeking a Confirmed Letter of Credit, the bidder's bid shall be loaded @ 0.5% of the LC value towards confirmation charges.
5. In the event of the bidder requiring SCL to bear bank charges outside India (foreign bank charges), the bidder's bid shall be loaded @ 0.5% of the LC value towards bank charges outside India.
6. In the event of the bidder not providing the Performance Bank Guarantee as sought vide the Payment Terms or not accepting payment of balance 15% after the expiry of the warranty period on account of not providing the Performance Bank Guarantee, the bid of the bidder shall be loaded suitably.
7. Post Warranty AMC Charge (Labour only) sought vide Clause no. 5 of PART-B shall not be taken into account for evaluation of Priced Commercial offers.
8. Prices of recommended/essential spares and consumables for five years of operation sought vide Clause no. 6 c (ii) of Part-A shall not be taken into account for evaluation of Priced Commercial offers.

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PART D

DRAFT OF PERFORMANCE BANK GUARANTEE

THIS GUARANTEE made on this .....day of .....2009 BETWEEN.....BANK, a banking company incorporated in.....and having its Branch office at .....(hereinafter called "Bank") which expression shall, unless repugnant to context or contrary to the meaning thereof, include its successors permitted assigns of one part and SEMI-CONDUCTOR LABORATORY having its registered office at Sector 72, S.A.S. Nagar (Mohali), PUNJAB, INDIA-160071 (hereinafter called "PURCHASER" which expression shall, include its successors permitted assigns) of other part.

WHEREAS PURCHASER has placed a firm Contract for supply, unloading at site, storage, installation, testing and commissioning of ..... (hereinafter called "CONTRACT") at a total cost of Rs. .... (Rupees.....) on M/s. .... (hereinafter called "CONTRACTOR") AND WHEREAS it is one of the terms of the said Contract that CONTRACTOR shall furnish to PURCHASER a Guarantee of a Bank which shall be for \_\_\_% of the value of Contract and shall be valid from the date of commissioning of the entire project to the expiry of the warranty period AND WHEREAS BANK has, at the request of CONTRACTOR agreed to give in favour of PURCHASER a Guarantee in manner hereinafter appearing which PURCHASER has agreed to accept.

Now This Deed Witnesseth As Follows:

1. In pursuance of Contract and consideration of promises BANK hereby Guarantees to PURCHASER the observance and fulfillment by CONTRACTOR of the terms of the said Contract relating to said CONTRACT and of the performance warranty which is a part of said Contract and agrees and undertakes that if CONTRACTOR
  - a. fails to observe and fulfill the said terms of said Contract and/or the performance warranty.
  - b. not attending the call within one month in the case of breakdown of any item covered by the Contract during the warranty period.
  - c. not paying the scheduled PM visits as required by the Contract during the warranty period.
  - d. does not ship essential spares leading to breakdown for more than one month.
  - e. the BANK shall immediately pay to PURCHASER on demand such sum or sums of money to the extent of Rs. .... being 15% (fifteen percent) of

the value of the said Contract on account of losses and damages suffered by PURCHASER as may be claimed by PURCHASER by reason of such non-observance and non-fulfillment by CONTRACTOR as aforesaid and shall also indemnify PURCHASER against all costs, charges, expenses which may be incurred by PURCHASER in connection herewith. BANK shall pay the said amount without demur or protest or without recourse to CONTRACTOR. Any such demand placed on BANK shall be conclusive as regards the amount due and payable by BANK under this Guarantee.

2. This Guarantee is a continuing guarantee and not revocable except with the previous written consent of PURCHASER and save as aforesaid, it will continue to be in force until the CONTRACTOR has maintained the schedule/ completion of said CONTRACT under the said Contract and observed and fulfilled the said performance warranty and all other terms and conditions of said Contract.
3. PURCHASER may without affecting BANK'S liabilities and obligations hereunder grant time or other indulgence to or compound with CONTRACTOR or enter into any agreement or agree to forbear to enforce any of the terms and conditions of said Contract against CONTRACTOR or agree to vary any of the terms and conditions of the said Contract.
4. This guarantee shall not be affected by any change in the constitution of PURCHASER by absorption with any other body or corporation or otherwise and this Guarantee will be available for enforcement by such body or corporation.
5. All compensation and payments received by PURCHASER from or on behalf of CONTRACTOR shall be regarded as payments in gross and in the event of Contract being terminated by the contractor for reasons attributable to contractor, PURCHASER will be entitled to proceed against the properties of CONTRACTOR in respect of the whole of CONTRACTOR'S indebtedness to PURCHASER under this guarantee without any right on the part of BANK to stand in PURCHASER'S place in respect of or to claim the benefits of such compensation and payment or any security held by PURCHASER until PURCHASER shall have received the full amount of the claim against CONTRACTOR.
6. This Guarantee shall continue to be in force notwithstanding the discharge of M/s. \_\_\_\_\_ by operation of law and shall cease only on payment of the full amount by BANK to PURCHASER of the amount hereby secured and on the claims of PURCHASER against CONTRACTOR in respect of Contract.
7. The Guarantee shall be in addition to and not in substitution for any other Guarantee or Security of CONTRACTOR given or to be given to PURCHASER in respect of said Contract by BANK (whether alone or jointly with others).
8. This Guarantee shall remain in force for the period of Warranty after installation and commissioning of the equipment to the satisfaction of PURCHASER. Unless

demand or claim under this guarantee is made within 6 (six) months from the date of expiry of this Guarantee, all the rights of PURCHASER hereunder shall be forfeited and BANK shall be relieved and discharged of all liabilities hereunder.

9. Any Notice by way of request, demand or otherwise hereunder may be sent by e-mail, fax or registered post to BANK addressed as aforesaid.
10. These presents shall be governed by and construed in accordance with Indian Law.
11. All disputes relating to the Contract and/or Guarantee shall be referred to and be subject to the exclusive jurisdiction of the Civil Courts at S.A.S. Nagar (Mohali), Punjab, India irrespective of anything mentioned in any correspondence or otherwise.

IN WITNESS whereof BANK has executed these presents the day and year first above written.

SIGNED AND DELIVERED for and on behalf of the above named.

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PART E  
QUERY SHEET

M/s (Name, address and contact person of prospective bidder)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1. Tender Document Reference No. \_\_\_\_\_.
2. Date of pre-bid Conference \_\_\_\_\_
3. Details of persons scheduled to participate in the Pre-bid conference including Passport number(s) and Nationality in case the representative(s) is coming from outside India.
4. Query /Queries.

Sr.	Clause Reference	Bidder's Query/Clarification Sought

Note:

- 1 The prospective bidders are requested to send the Query Sheet listing their questions, if any, in advance to reach us at least two days before the Pre-bid conference.
- 2 Please use extra sheets, if required.

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PART F

PROFORMA OF STATEMENT OF COMPLIANCE TO BE PROVIDED BY THE BIDDER ALONGWITH THE BID (Part-2 marked 'Technical')

This is to certify that we have carefully gone through the specifications of the equipment related to the above Tender Reference number, minutes of proceedings of the Pre-bid conference placed at SCL's website, 'General Instructions to Bidders', 'Format for Compliance/Response to the Commercial & Other Terms and Conditions' and 'Procedure for evaluation of bids' of the RFP. We have based our proposal on the various clauses of the abovesaid documents and hereby confirm that we:

- have submitted the bid for brand new equipment.
- have offered the equipment meeting the prescribed specifications.
- accept all the clauses as indicated in the abovesaid documents.
- accept all the clauses except for the clauses and reasons thereto as indicated against such clauses in the columns of PART-B titled 'Format for Compliance/ Response to the Commercial and Other Terms & Conditions

Authorized Signatory:.....

Name:.....

Title .....

Name of the Company .....

.....

PART – G

LIST OF INTERNATIONAL AIRPORTS

Sr. No.	COUNTRY	INTERNATIONAL AIRPORT
1.	USA	NY, LA & CH.
2.	BRAZIL	SAO PAULO
3.	AUSTRIA	VIENNA
4.	BELGIUM	BRUSSELS
5.	DENMARK	COPENHAGEN
6.	FINLAND	HELSINKI
7.	FRANCE	PARIS, MARSEILLE
8.	GERMANY	FRANKFURT, MUNICH
9.	ITALY	MILAN
10.	THE NETHERLAND	AMSTERDAM
11.	POLAND	WARSAW
12.	SLOVAKIA	BRATISLAVA
13.	SWEDEN	STOCKHOLM
14.	SWITZERLAND	ZURICH
15.	UNITED KINGDOM	LONDON
16.	CHINA	SANGHAI, SHENYANG, SHENZHEN
17.	DUBAI (UAE)	DUBAI
18.	HONGKONG	HONGKONG
19.	ISRAEL	TEL AVIV
20.	JAPAN	TOKYO, OSAKA
21.	MALAYSIA	KUALALUMPUR
22.	PHILLIPINES	MANILA
23.	SINGAPORE	SINGAPORE
24.	SOUTH KOREA	SEOUL
25.	TAIWAN	TAIPEI
26.	THAILAND	BANGKOK
27.	SOUTH AFRICA	DURBAN

Note: By International airport we mean the airport from where the flights to IGI Airport, New Delhi originate/operate.

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## Specification Of Electro-dynamic Vibration Test System

### 1. Technical Specifications:

<b>1.1</b>	<b>Electro-dynamic Vibration Shaker</b>	<ul style="list-style-type: none"> <li>• Rated Force : &gt; 1000 kgf (Sine &amp; Random)</li> <li>• Shock force : &gt; 2000kgf</li> <li>• Frequency Range : 1Hz - 3000Hz.</li> <li>• Bare table acceleration : 90g</li> <li>• Cooling System : Forced air cooling</li> <li>• Stray magnetic field : less than 1mTesla</li> <li>• Working temperature : 0- 45<sup>0</sup>C</li> <li>• Armature Platen dia. : &gt; 225 mm</li> <li>•</li> </ul>
<b>1.2</b>	<b>Power Amplifier</b>	<ul style="list-style-type: none"> <li>• Frequency range : DC to 3000Hz.</li> <li>• Monitoring &amp; control : Microcontroller based.</li> <li>• Power efficiency : &gt; 90%</li> <li>• Signal to noise ratio : &gt; 70dB</li> <li>• Harmonic distortion : &lt; 1% at rated output</li> <li>• Shaker Interface : Direct coupled</li> <li>• Safety interlocks : Over current, over temperature , Mains under or over voltage , loss / change of phase, field failure, armature failure, over travel , shaker Cooling off or any other interlock.</li> <li>• Self diagnostics : Should have self diagnostic capability.</li> <li>• Cooling : Self cooling with in-built fans.</li> <li>• User interface : Soft touch front panel key board &amp; Alphanumeric backlit display.</li> </ul>
<b>1.3</b>	<b>Vibration Controller</b>	<ul style="list-style-type: none"> <li>• Operating platform : Windows XP,</li> <li>• Design : DSP based with signal conditioner having PC interface to configure various test conditions. Should have closed loop operation capability.</li> <li>• Frequency Bandwidth: up to 3000 Hz at least.</li> <li>• Resolution : 24 bit ADC/DAC</li> <li>• Controller to be supplied along with the PC with front end GUI interface.</li> <li>• PC Configuration: Pentium processor, Window XP platform, 1GB RAM, 160GB HDD, DVD read write, 17" TFT, laser color printer, UPS 500VA, mouse, keyboard.</li> </ul>
<b>1.4</b>	<b>Accelerometer</b>	<ul style="list-style-type: none"> <li>• Type : Charge Type</li> <li>• Sensitivity : 30 pico Coulomb per g value</li> <li>• Frequency : up to 4000 Hz.</li> <li>• End connector : Suitable for connections with controller ( e.g. microdot type at both ends)</li> <li>• Connecting cable : Low noise connecting cable. Minimum 5 meter length.</li> </ul>

1.5	<b>Vibration Test Software</b>	<ul style="list-style-type: none"> <li>• Following software to be supplied along with the system : <ul style="list-style-type: none"> <li>- Swept Sine, resonance search &amp; Dwell, Random</li> <li>- Shock</li> <li>- Sine-on-random</li> <li>- random on random</li> </ul> </li> <li>• The software should have the capability to display all relevant graphs &amp; parameters on line (e.g. Frequency, programmed levels, measured control levels, displacement, velocity etc etc.) It should graphically display &amp; print the spectral density curves (Power Spectral density versus frequency)</li> <li>• The software should be able to generate test documentation with date &amp; time of test i.e. post test report generation with graphs, export of report &amp; graphs to Microsoft Word/Excel.</li> <li>• The software should have safety features like <ul style="list-style-type: none"> <li>- loop check feature for verifying physical settings of the system prior to start of the test.</li> <li>- Auto shut down in case actual test parameters exceed the programmed limits</li> <li>- Password authorization to operate the software.</li> </ul> </li> <li>• The above mentioned requirements are as a minimum.</li> </ul>
1.6	<b>Head Expander</b>	<ul style="list-style-type: none"> <li>• Material : Magnesium alloy</li> <li>• Shape : Square</li> <li>• Dimensions : 600mm X 600mm</li> <li>• Hole pattern on platform : M10 Size replaceable type SS inserts at customized matrix.</li> </ul>
1.7	<b>Horizontal slip table</b>  (Vendor to quote as an optional add on item)	<ul style="list-style-type: none"> <li>• Platform Material : Magnesium alloy</li> <li>• Platform size : 600mm X 600mm</li> <li>• Bolting pattern on platform : M10 Size replaceable type SS inserts at customized matrix.</li> <li>• Coupling : Bull nose type tie bar or any other coupling</li> <li>• Vibration guidance : Hydrostatic bearing guidance on flat granite base.</li> <li>• Oil Lubrication : Modular type self contained hydraulic power pack</li> </ul>
1.8	<b>General</b>	<ul style="list-style-type: none"> <li>• The Electro-dynamic Vibration Test System shall be used to perform vibration tests on microelectronic devices as per MIL-STD883F and to meet test requirements of electronic boards &amp; other subsystems.</li> <li>• The System should be capable to vibrate pay load of at least 2 Kg weight up to 80g value or 75 Kg pay load for more than to 10g.</li> </ul>

## **2. Other terms & conditions:**

### **2.1 CALIBRATION:**

Vendor shall provide factory calibration certificate for the system alongwith the system. Guidelines to be provided regarding calibration procedure, frequency etc. alongwith a list of tools required for calibration.

### **2.2 INSTALLATION AND COMMISSIONING:**

System to be installed and commissioned at SCL premises by the vendor.

Vendor to supply guidelines for preparation of installation site and list of items to be supplied during installation by SCL.

### **2.3 ACCEPTANCE:**

Vendor to supply the details of acceptance test procedure as part of his proposal to SCL. Equipment will be accepted as per mutually agreed acceptance test procedures. Pre-shipment inspection may be done at vendor's premises at SCL option; however, final acceptance would be done at SCL after installation.

### **2.4 TRAINING:**

Vendor to provide training to SCL engineers on system operation, maintenance, application software, and related applications for an appropriate period. The training should be extensive enough so that quick diagnostics of problems and remedial actions is possible at SCL. Vendor to quote separately for training of two engineers at vendor's site, as well as on-site training at SCL.

### **2.5 WARRANTY:**

Vendor to provide comprehensive parts and labour warranty for a period of 12 months after acceptance of the system at SCL.

Vendor to provide **one** Preventive Maintenance (PM) visit during warranty.

### **2.6 UPTIME:**

Vendor to guarantee 90% uptime for the equipment based on 24 hours working, 7 days a week.

### **2.7 POST-WARRANTY SYSTEM SUPPORT**

Spare and maintenance support required for 7 years after the expiry of warranty period.

Vendor to quote for Post-warranty 'labour-only' AMC per year for a period of 5 years.

### **2.8 RECOMMENDED SPARES AND CONSUMABLES:**

Vendor to provide itemized Quote for recommended essential spares and consumables for five years.

### **2.9 TECHNICAL DOCUMENTATION:**

Vendor to supply two sets of technical documentation containing, but not limited to, the following:

- a) System user manuals
- b) System Hardware / Software manuals
- c) Maintenance /Diagnostic / Trouble shooting manuals including schematics, Electronic/Electrical Circuit diagrams (Electrical & Plumbing details) along with Part # for all spares.
- d) OEM system/subsystem/accessories manuals

### **2.10 SAFETY**

Appropriate safety mechanism in terms of interlocks and alarms should be provided for operator safety. Vendor to provide details.

### **2.11 POWER & UTILITIES / FOOT PRINT DIMENSIONS:**

Power: Single Phase 220V  $\pm$  10% , 50 Hz  $\pm$  5%. OR 415V  $\pm$  10%/3 PHASE, 50 Hz  $\pm$  5%.

Vendor to provide a list of other facilities/utilities as applicable, to the equipment.