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INSTITUTE FOR PLASMA RESEARCH  
(An Aided Institute of Department of Atomic Energy, Government of India)  
Near Indira Bridge; Bhat; Gandhinagar-382428; India

**Notice Inviting Tender  
(NIT)**

निविदा सूचना TENDER NOTICE NO: IPR/TN/PUR/TPT/ET/21-22/012  
दिनांकित DATED 31-08-2021

Head-Purchase and Stores Department, Institute for Plasma Research, for and on behalf of Director, Institute for Plasma Research (IPR) invites online tenders IN **TWO PART (INR quote only)** for execution of contract in accordance with the purchaser's tender specifications. The invitation to tender, tendering conditions, general conditions of contract, special conditions of contract and additional conditions of contract, if any, which will govern the contract pursuant to the tender are attached.

Bidders interested to submit bid are requested to go through the contents of the NIT and ensure that the bid is submitted online on or before the due date and time indicated in NIT and as per technical specifications and terms and conditions indicated herein and upload digitally signed or ink signed undertaking of Form No. **IPR-LP-ET-02.V5**.

Off line bids including hard copy in any form will not be accepted.

Head-Purchase Section  
For and on behalf of Director, IPR  
(The Purchaser)

Encl: as above.

**निविदा सूचना TENDER NOTICE NO: IPR/TN/PUR/TPT/ET/21-22/012**

**दिनांकित DATED 31-08-2021**

निम्नलिखित के लिए प्रतिष्ठित और योग्य पार्टियों से ई-निविदा विधि के माध्यम से दो भाग में ऑनलाइन निविदा आमंत्रित की जाती है।

Online tender is invited in **TWO PARTS** through e-tendering mode from reputed and eligible parties for the following.

Work/Item Description	<b>Supply, installation, testing, commissioning and site acceptance of the Containerized Data Center at IPR (Turnkey Project) as per the detailed specifications mentioned in the tender document.</b>
Tender Fee	<b>Not Applicable</b>
Earnest Money Deposit (EMD)	Not Applicable. <b>In place of EMD, vendor should upload sealed and signed "Bid Security Declaration" as per ANNEXURE-V</b>
Publishing Date	<b>01-09-2021 at 10:00 Hrs.</b>
Document Download / Sale Start Date	<b>01-09-2021 at 10:00 Hrs.</b>
Seek Clarification Start Date	<b>01-09-2021 at 10:00 Hrs.</b>
Seek Clarification End Date	<b>16-09-2021 by 17:00 Hrs.</b>
Response to Clarification by IPR	<b>29-09-2021 by 17.00 Hrs</b>
Bid Submission Start Date	<b>30-09-2021 at 10.00 Hrs</b>
Bid Submission Closing Date	<b>12-10-2021 at 13.00 Hrs</b>
13	<b>13-10-2021 at 14.00 Hrs</b>
भाग-II के ऑनलाइन खोलने का समय और तिथि (मूल्य बोली)  Time and Date of online Opening of PART-II (Price Bid)	<b>Will be declared later on</b>

It may please be noted that any clarifications required in this tender either technical or otherwise shall be carried out before submission of bids.

Detailed tender notice along with Eligibility criteria and Tender Document is available on website <https://eprocure.gov.in/eprocure/app> for free view and downloading. For participating in the e-tendering process, it is mandatory to get registered on the above e-tender portal and required to have Digital Signature Certificate (Class -III). For new registration/ tendering, bidders may go through the "**Instructions for Online Bid Submission**" provided as under.

A copy of this NIT is also available on the Institute's website [www.ipr.res.in](http://www.ipr.res.in) . For further information, please contact: 079 23962020/2021, Fax: 079 23962277.

## **Instructions for Online Bid Submission**

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

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

### **REGISTRATION**

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

### **SEARCHING FOR TENDER DOCUMENTS**

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

## PREPARATION OF BIDS

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

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

## SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

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

### **ASSISTANCE TO BIDDERS**

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

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## **TWO-PART TENDER SECTION – A**

### **Invitation to Tender and Tendering Conditions**

#### **1.0 INVITATION TO TENDER**

- 1.1 Institute for Plasma Research (IPR) invites online tenders for supply of Plant, Machinery, Equipment/Components to the specifications detailed in Section "C" to this tender document. The conditions of contract/purchase order which will govern the contract pursuant to the tender are as contained in Section "B" of this tender document. If you are in a position to quote for supply in accordance with the technical specifications indicated in Section "C" to this tender document and as per the conditions stipulated in this Section and Section B, please upload your offer in a manner and method specified below.

#### **2.0 MANNER AND METHOD FOR SUBMISSION OF TENDERS**

- 2.1 All tenderers in response to this invitation shall be submitted through online mode only. Tender submitted by **fax/cable/telegram or any mode other than online will NOT be considered at all** and all such tenders will be rejected without any notice to the tenderer.
- 2.1.1 **Part-I (Techno-commercial):** This part of the tender shall include/contain documents related to eligibility criteria, all technical details, technical specifications, drawings and also the commercial terms and conditions of contract for the supplies to be made and the services to be rendered **EXCLUDING ANY PRICE DETAILS THEREOF.**

**Proof for fulfillment of eligibility criteria mentioned in Annexure-A should be uploaded along with the tender. If the tender is submitted without valid documents, we shall not consider your offer. Tenders received without proof of eligibility criteria will be rejected. The offers which meets the eligibility criteria will only be considered for evaluation.**

- 2.1.2 **Part-II (Price):** This part should contain only the prices of the stores offered for the services to be rendered. Part-II (Price) should be furnished in accordance with the format provided by the Purchaser at Section "D" of this tender document
- 2.1.3 If tenderer includes prices of any nature in Part-I (Techno-commercial) of the tender such offers are liable for rejection without any notice to the tenderers.

#### **3.0 EARNEST MONEY DEPOSIT (EMD)**

- 3.1 The Tenderer shall submit, as part of its bid, interest free Earnest Money Deposit (EMD) for an amount as specified in the Tender Notice. In the case of foreign bidders, the EMD shall be submitted either by the

principal or by the Indian agent and in the case of indigenous bidders; the EMD shall be submitted by the manufacturer or their specifically authorized dealer/bidder. EMD shall be submitted by way of Demand Draft from **SBI/nationalized banks or any one of the scheduled banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank)** issued in favour of "**Institute for Plasma Research**" and payable at **Ahmedabad**. **Tender received without EMD will be rejected at the discretion of IPR.**

***(Copy of Demand Draft to be uploaded with the quotation, Original DD should be sent to IPR on or before the specified closing date and time)***

- 3.2 The EMD of unsuccessful Tenderer will be discharged/returned after finalizing award of the Contract/placement of Purchase order.
- 3.3 The successful Tenderers EMD shall be discharged upon the Bidder submitting the Security Deposit as specified in the contract/purchase order, without any interest.
- 3.4 **Exemption from payment of EMD:** The firms registered with DGS&D, NSIC, DPS or Micro & Small Enterprises (MSEs) which are actual producers/manufacturers of tendered items are exempted from payment of EMD provided valid registration certificate is uploaded along with the offer. In the case of foreign bidders, payment of EMD is exempted if they submit their bid directly or through their Indian agent in **foreign currency** against the tender document bought by them, so that the order can be placed directly on their Principals.
- 3.5 **The EMD may be forfeited:**
  - 3.5.1 If a Tenderer withdraws or amends or modifies or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; or
  - 3.5.2 In case of a successful tenderer, if the tenderer fails to furnish order acceptance within 15 days of the order or fails to submit the Security Deposit within 21 days from the date of contract/order.

#### **4.0 LATE/DELAYED TENDERS**

- 4.1 Uploading of the offer document after the due date and time shall not be permitted. Time being displayed on e-Tendering portal shall be final and binding on the applicant.

#### **5.0 OPENING OF TENDERS**

- 5.1 Unless otherwise pre-opened or postponed with advance intimation to the tenderers, tender will be opened in two stages on the date and time indicated on e-Tendering portal.
- 5.2 Part-I (Techno-commercial) of the tender will be opened at the first stage on the due date and time indicated for opening on the e-Tendering portal while the Part-II (Price) will be opened at the second stage after completion of the evaluation of the Techno-Commercial Part (Part-I) of the tender.
- 5.3 While all the tenderers who uploaded tenders within the due date and time will be permitted to participate in the opening of Part-I (Techno-Commercial) of the tender on the due date and time indicated on e-Tendering portal, opening of the Part-II (Price) of the tender can be attended to only by such of those tenderers whose Part-I (Techno-Commercial) of the tenders are found to be technical suitable/



acceptable to the Purchaser and to whom intimation thereof is given by the Purchaser by Email/letter or through e-Tendering portal.

- 5.4 The tenderers whose Techno-commercial part (Part-I) are found suitable/acceptable to the Purchaser, will be given seven days advance intimation by the Purchaser to enable such tenderers to depute their representative to participate in the opening of the Part-II (Price) of the tender. The technically unqualified tenderers will neither be given any intimation about the date and time of opening of Part-II (Price) of the tender nor will they be permitted to participate in the opening of the same. **Part-II (Price) of the technically disqualified tenderers will not be opened.**

## **6.0 AUTHORITY LETTER**

- 6.1 The tenderers who wish to participate in the opening of the tenders may depute their representatives to IPR on the respective due date and time as indicated in the tender notice with an authority letter addressed to the Purchase Officer which should be produced to the officers who are opening the tenders, on demand to prove the bonafides of the representative who participates in the opening of the tender. In case the representative of the tenderer fails to produce such an authority letter on behalf of the tenderer, he will be debarred from participating in the opening of the tenders.

- 6.2 The tenderers representative, who reaches the venue of the tender opening late, i.e. after the starting time specified for opening of the tenders, may not be allowed to take part in the tender opening. It should be noted that only one representative of each tenderer will be permitted to participate in the tender opening.

## **7.0 EVALUATION OF TENDER**

- 7.1 Evaluation of tender shall be based on all inclusive landed cost.

## **8.0 PURCHASER'S RIGHTS TO REJECT QUOTATION**

- 8.1 The Purchaser reserves the right to reject any quotation without assigning any reason thereof.

## **9.0 TECHNICAL CLARIFICATIONS**

- 9.1 After opening of Part-I (Techno-commercial) of the tender, if it becomes necessary for IPR to seek clarifications from the tenderers, the same will be sought for from the tenderers.

## **10.0 DATE FOR OPENING OF PART-II (PRICE):**

After completion of technical evaluation, Part-II (Price) of only technically qualified tenderers shall be opened. The date and time of opening of Part-II (Price) shall be intimated only to the technically qualified tenderers. Whose Part-I offers have been found suitable will only be permitted to participate in the opening of the Part-II (Price) of the tender.

## **11.0 HOLIDAYS**

If the date (s) specified for receipt and opening of the tenders is/are declared as holidays abruptly by the competent authority due to any administrative reasons, then the date(s) for opening of tenders will get postponed automatically to the next working day. As for instance, if the due date for receipt of tender and its opening falls on 3<sup>rd</sup> of a particular month and if the 3<sup>rd</sup> day of the month is declared as a holiday, then the

opening date of tender will stand automatically postponed to 4th day of the month at the same time. However, due date for submission of tender online will remain same as mentioned in the tender notice.

**12.0 VALIDITY OF OFFERS**

Offers shall be kept valid for acceptance for a period of of 120 (One hundred twenty) days from the date of opening of the tender. Offers with shorter validity period will be liable for rejection.

**13.0 CATALOGUES/TECHNICAL LITERATURE**

Vendor shall upload all necessary catalogues/drawings technical literature data as are considered essential for full and correct evaluation of the offers shall invariably accompany the Part-I (Techno-Commercial) of the tender. The quotations are liable to be ignored if this condition is not complied with.

**14.0 TERMS AND CONDITIONS OF THE CONTRACT**

It must be clearly understood that any contract concluded pursuant to this invitation to tender shall be governed by the General Conditions of the Contract as contained in Section "B" of this tender document. Tenderers must therefore, take special care to go through these general conditions of contract and in exceptional cases if any deviations are proposed, these must be clearly indicated in the Part-I of the tender as a separate annexure instead of merely enclosing their printed conditions of Sale. Tenders made subject to counter conditions or far too many deviations from the general conditions of contract, i.e. Section "B" of this tender document are liable to be ignored. It should also be realised that failure to bring out deviations from the General Conditions of Contract contained in Section "B" of this tender document will imply that the tenderer is willing to execute the contract as per the Purchaser's terms and conditions of contract.

**15.0 TENDERING CONDITIONS FOR BIDS**

- 15.1 The prices quoted must be FIRM and preference will be given to such tenders. In exceptional cases (e.g. items involving substantial use of raw materials susceptible to sharp fluctuations in prices) if prices quoted subject to variation it shall be on the basis of a standard 'Price Variation Formula'. The basis for calculation shall be very clearly stated. The responsibility for furnishing the documentary evidence for price variation lies with the vendor. Here again preference will be given to the tenders with a specific ceiling on escalation.
- 15.2 Prices quoted by the tenderer should include all charges involved for direct and safe-delivery of the stores to the consignee/place of delivery indicated in the tender document. If a tenderer so desires, separate lump sum charges for safe-delivery of the stores to the consignee/purchaser's site, could be furnished. However, the purchaser reserves the right to call for break-up. The purchaser will neither undertake responsibility for transit insurance nor pay for it separately.
- 15.3 In respect of tenders on Ex-works basis, in case the tenderer has not mentioned in the offer packing, forwarding and transportation charges for safe delivery up to Purchaser's site, 2% of the price quoted towards packing (in respect of both local and outstation firms), 1% of the basic price quoted towards safe delivery charges in respect of local tenderer and 3% of the basic price quoted towards safe delivery charges in

respect of outstation firm will be added for comparison of offers on safe door delivery at Purchaser's site.

- 15.4 The stores shall neither be despatched under 'owner's risk' nor consigned to 'self', but only to the consignee's name and address indicated in the Purchase order. Non-adherence to this condition shall make the contractor liable to bear all consequential penalties/expenses such as demurrage, wharf age, etc. which the Purchaser may incur.
- 15.5 The consignee will, as soon as possible, but not later than 45 days from the date of arrival of stores at destination notify the contractor of any loss or damage to the stores that may have occurred during transit to enable the contractor to repair/rectify the defects/damages or replace the goods as is appropriate, free of all charges. In case it is desired by the contractor for returning of the material to them all expenses towards transportation etc. will be borne by the supplier and also will furnish bank guarantee towards the cost of material.
- 15.6 In case an Indian supplier/Agent furnishes an offer for supply of outrightly imported stores, the price of such stores shall be quoted in Indian Rupees for delivery to the consignee's premises exclusive of import duties and on firm price basis.
- 15.6 **Conditional Discount:** In case the tenderer offers any conditional discount with regard to acceptance of their offer within a specific payment terms, delivery, quantity etc. the purchaser will not take into consideration such conditional discount while evaluating their offer.

## **16.0 SPARES AND ACCESSORIES**

- 16.1 Tenders for plant/machinery/equipment/component shall also indicate prices for essential accessories, optional accessories and spares necessary for satisfactory operation of the plant/machinery/equipment.
  - 16.1.1 for a period of two years and
  - 16.1.2 for a period of five years
- 16.2 Prices for accessories and spares shall be itemized. Tenders where only lumpsum prices are indicated are liable to be ignored. Particular care must be taken to list out each item of spare and quantity recommended and also the individual price for these items. These details should be included only in Part-II (Price) of the tender. However, a list of spares and accessories without Price should be included in Part-I (Techno-Commercial) of the tender.

## **17.0 QUANTITY**

The purchaser reserves the right to accept tenders for any quantity of his choice and the tenderer shall be bound to accept a contract for any quantity. The Purchaser also reserves the right to accept or reject lowest or any tender in full or in part without assigning any reasons.

## **18.0 STATUTORY LEVIES SUCH AS CUSTOMS DUTY, GOODS AND SERVICE TAX**

### **18.1 CUSTOMS DUTY**

- 18.1.1 The Purchaser is entitled for assessment of customs duty at the concessional rate as per Customs Notification No. 51/96-Custom dated 23.7.1996 issued by the Department of Revenue, Ministry of Finance, as amended from time to time, in respect of purchases made for the Research Institutions under the Department of Atomic Energy and the Purchaser will obtain the requisite

- certificate from the appropriate authority.
- 18.1.2 In case an Indian vendor/agent submits an offer for supply of outrightly imported stores in Indian Rupees, they should quote price for free and safe delivery of stores at destination.
- 18.1.3 Wherever, against a requirement, both indigenous as well as imported offers are received, the offers for imported stores will be evaluated on the basis of the total landed cost after loading the custom duty and other levies as may be applicable from time to time for taking purchase decision.
- 18.1.4 High Seas sale will not be considered.

**18.2 FLUCTUATION IN THE CUSTOMS DUTY**

- 18.2.1 Unless otherwise specifically agreed to in terms of the Contract, the purchaser shall not be liable for any claim on account of fresh imposition and /or increase in Customs Duty on raw materials and/or components used directly in the manufacture of the contracted stores, taking place during the pendency of the contract.

- 18.3 Offers from Indian Agents on behalf of foreign suppliers:** In case the tender is submitted by an Indian supplier/Indian agent on behalf of their foreign supplier/ principals, following documents should be submitted with the tender, failing which, their offer is liable to be ignored.

- 18.3.1 Photocopy of the Agency Agreement between the Principals and the Indian Agent showing the percentage or the quantum of agency commission payable and a Letter of Authority from the Principals authorizing the Indian Agents to submit the tender on their behalf.
- 18.3.2 The type and nature of after sales services to be rendered by the Indian Agent.
- 18.3.3 Both Indian Agent and Principal/OEM cannot bid simultaneously for the same item/product in the same tender.
- 18.3.4 The Indian Agents are allowed to quote on behalf of only one foreign Principal/ Supplier against this tender.
- 18.3.5 Copy of Registration Certificate with DGS&D or DPS.

**18.4 GOODS AND SERVICE TAX**

- 18.4.1 GOODS AND SERVICE TAX where legally leviable as per relevant HSN code will be admitted and reimbursed at the rate applicable during original delivery date.
- 18.4.2 GOODS AND SERVICE TAX intended to be claimed should be distinctly shown separately along with the price quoted. Where this is not done, no claim for GOODS AND SERVICE TAX will be admitted at any later stage and on any ground whatsoever.
- 18.4.3 The Purchaser is entitled for assessment of GST at the Concessional rate as per Notifications issued by the Government, as amended from time to time, in respect of purchases made for the Research and Development applications under the Department of Atomic Energy and other R&D units.
- 18.4.4 **GST for R&D Unit:** Goods and Service Tax (GST) wherever applicable will be paid extra at actual during the delivery period stipulated in the Purchase order. In terms of notifications issued by the Central Government and State Governments, R&D units of Department of Atomic Energy are entitled for IGST @ 5% or CGST @ 2.5% and SGST @ 2.5% as applicable for stores covered under the Purchase Order.

- 18.4.5 **GST for Services:** As applicable. Specify the SAC codes wherever services are involved.
- 18.4.6 It would be the responsibility of the contractor to ensure that relevant certificate is obtained from the Purchaser before effecting the delivery of goods ordered failing which the excess tax paid by the contractor shall not be reimbursed by the Purchaser.
- 18.4.7 When GOODS AND SERVICE TAX is claimed as extra by the vendor in general and on packing charges in particular, the following certificates should be submitted by the vendor to the Paying Authority on the bills itself.
- 18.4.8 Certified that the goods and packing charges on which GOODS AND SERVICE TAX has been charged have not been exempted under the Central Sales Tax or the State Sales Tax Act or the rules made there-under and the amount charged on account of GST on these goods and packing charges are not more than what is payable under the provision of relevant Act or the rules there-under.
- 18.4.9 Certified further that we have actually paid GOODS AND SERVICE TAX and are being assessed to GST on packing charges and also that where there are statutory exemption under the Relevant Act/Law of the State Government concerned, we have availed ourselves of it and certified non-availability of such a provision for GST on packing charges wherever claimed.
- 18.4.10 Certified further in respect of amount claimed into the bill no claim is pending for refund/or admissible. Certified that in the event of our getting refund in whole or in part of the element of GOODS AND SERVICE TAX on packing charges claimed from Government, we shall pass on the benefit to the Purchaser by remitting to Government the amount equivalent to the amount of refund obtained by us.
- 18.4.11 Further certified that we abide by the all the provisions of Acts of Governemnt and rules made thereunder especially regarding anti-profiteering provisions.
- 18.4.12 Certified further that we (our Branch or agent) \_\_\_\_\_  
 \_\_\_\_\_  
 (address) are registered as dealers in the State of \_\_\_\_\_  
 under Local Regn. No. \_\_\_\_\_ and in the State of \_\_\_\_\_  
 under Central Regn. No. \_\_\_\_\_ for the  
 purpose of State/Central Tax.  
 (Stamp & Signature of the Vendor)
- 18.4.13 The vendor shall solely be responsible for declaration of Goods and Service Tax made in his invoice and shall indemnify the purchaser from any claim or its liability from concerned authorities at any stage.
- 18.4.14 Certificate with each bill to the effect that no refund has been obtained in respect of the reimbursement of GST made to vendor during three months immediately preceding the date of the claim covered by the relevant bill.
- 18.4.15 AN UNDERTAKING to the effect that in case any refund of GST is granted to the vendor by concerned authorities in respect of stores supplied under the contract, they shall pass on the credit to the purchaser immediately alongwith a certificate from their Director/Manager/Proprietor/ Accountant to the effect that the credit so passed on relates to the GST originally paid for the stores

supplied under the contract. In case of their failure to do so within 10 days of the issue of the refund orders to them by the Authorities, the purchaser would be empowered to deduct a sum equivalent to the amount refunded by the authorities without any further reference to the vendor, from any of their outstanding bills against this or any other pending Government Contracts and that no dispute on this account would be raised by the vendor.

18.4.16 Statutory Deductions, as applicable shall be made from the supplier's bill.

#### 18.5 **DEDUCTION OF TAX AT SOURCE (TDS)**

As per Government of India rules, it is mandatory that income tax shall be deducted at source at applicable rates as per relevant act, rules and notifications issued by the government from time to time.

18.5.1 **In case of Indigenous Vendors** (Indian Suppliers who provide indigenous products and services, Indian subsidiaries with permanent establishment in India who supply imported goods and services and paid in Indian currency only): Tax deducted at source will be applicable under Section 194-C for carrying out any work (including supply of labour for carrying out any work) in pursuance of contract as per Income Tax Act 1961. In case of technical or professional services, TDS will be applicable as per under Section 194-J of Income Tax Act 1961.

18.5.2 **In case of Foreign Vendors** (Foreign Suppliers who provide goods from abroad paid in foreign currency and providing technical services by Indian subsidiary paid in Indian currency): The TDS is applicable where services are rendered in India directly or through their Indian counter part against foreign Purchase order / Contract as per the provision of under Section 195 of Income Tax act of India. Wherever DTAA (Double Taxation Avoidance Agreement) agreement exists between India and the supplier country the provisions of the agreement shall be applicable. For getting benefit of DTAA (Double Taxation Avoidance Agreement), the following documents must be submitted, otherwise full TDS will be deducted.

- a) No Permanent Establishment in India certificate
- b) Tax Residency Certificate (TRC) issued by Tax authorities of their country
- c) Form 10F if TRC does not contain required details
- d) PAN (Permanent Account Number) details issued by Indian Income Tax Authority

#### **Important Note:**

- a) Where bifurcation is inappropriate and unacceptable for supply of material and providing services the purchase order / contract will be treated as **Composite Contract** and TDS will be deducted on whole contract / purchase order value as per applicable rate.
- b) TDS or any other leviable taxes or duties, if applicable, shall be deducted recovered from the Supplier's bill and necessary certificate will be issued to the supplier.

- c) Details on relevant sections of Income Tax Act and DTAA treaties can be obtained from [https://www.incometaxindia.gov.in/ Pages/acts/income-tax-act.aspx](https://www.incometaxindia.gov.in/Pages/acts/income-tax-act.aspx).

**19.0 FLUCTUATION IN STATUTORY LEVIES**

Unless otherwise specifically agreed to in terms of the Contract, the purchaser shall not be liable for any claim on account of fresh imposition and/or increase in statutory levies on raw materials and/or components used directly in the manufacture of the contracted stores, taking place during the pendency of the contract. However, any reduction in statutory levies on these raw materials and/or components must be passed on to the Purchaser.

**20.0 SAMPLES/PROTOTYPES**

If any called for shall be submitted free of all charges by the Tenderer and the Purchaser shall not be responsible for any loss or damage thereof for any reason whatsoever. In the event of non-acceptance of the tender, the tenderer will have to make arrangements to remove/collect the sample/prototypes at his own expenses.

**21.0 QUANTITIES**

Quantities indicated are approximate only and one or more of the items of the stores tendered, or a portion of any one or more of the items of such stores may be accepted and the tenderer notwithstanding that his Tender has not been accepted in whole shall be bound to supply contracted quantity to the Purchaser.

**22.0 SUBMISSION OF DRAWINGS**

The tenderer shall furnish all drawings pertaining to the plant/machinery/ equipment/component to the Purchaser along with the tender for correct understanding and appreciation of the tender in quadruplicate. Besides, tenderers should also furnish general arrangement, schematic and such other drawings prescribed by the Purchaser within 4 weeks from the date of receipt of a Purchase Order for approval. Such drawings should be furnished along with Part-I (Techno-Commercial) of the tender. Tenderer's drawing will form part of the purchase order/contract only after these are approved by the Purchaser.

**23.0 INSTALLATION AND COMMISSIONING**

- 23.1 Wherever, the purchaser's invitation to tender calls for installation and commissioning or supervision of installation and commissioning of the instrument/equipment by the tenderer, the tenderer must clearly and separately quote the prices for the supply of the stores and the charges and the terms for installation and commissioning or supervision of installation and commissioning, as the case may be. The charges towards installation and commissioning should not be included in the price of the stores.
- 23.2 In respect of contracts involving installation and commissioning by vendors including overseas vendors where identifiable charges for the same has been quoted by the vendor, he shall bear the Income-tax liability as per the rates prevailing at the time of undertaking the job in accordance with the Income-tax Act in force in India.

23.3 Wherever, the scope of the contract includes installation and commissioning, it shall be the sole responsibility of the contractor to undertake the installation and commissioning as and when called for, by the Purchaser.

24.0 **INSPECTION**

24.1 The Contractor shall be responsible for and perform all inspection and testing required in accordance with the contract/purchase order and specifications included therewith.

24.2 The Purchaser may at his option depute his representative for inspection of the stores to be supplied under the contract or authorize and nominate a Quality Surveillance Agency of his choice for the purpose hereinafter called, in either case, the inspection.

24.3 The supplier shall give notice of readiness for inspection to the Purchaser so that the Inspector can be present at the requisite time. In such an event delivery shall not be effected until an authorization or shipping release is obtained from the Purchaser.

24.4 The contractor shall allow reasonable facility and free access to his work/factory and records to the inspector for the purpose of inspection or for ascertaining the progress of delivery under the contract.

25.0 **FACTORY REGISTRATION/SHOP & ESTABLISHMENT CERTIFICATE**

The tenderers shall upload the copy of the Factory Registration/License or Shop & Establishment Certificate as applicable, along with the tender, failing which the tenders are liable for rejection.

26.0 **PRODUCTS WITH ISI MARK**

26.1 Products with ISI mark will be preferred.

26.2 In respect of following categories of item, Purchaser will consider offers for products with ISI mark only:

- Fire Extinguisher
- Building Material
- PVC Pipes & fittings
- Agricultural Implements & sprayers
- Medical instruments such as syringes, needles, BP apparatus etc.

27.0 **SHOP/FACTORY EVALUATION, QUALITY SURVEILLANCE /INSPECTION AND SUBMISSION OF PROGRESS REPORTS**

27.1 The Purchaser or his technical authorities may at his option and prior to evaluation of the tender depute his Inspector or any quality surveillance Agency of his choice to the factory/workshop of the tenderer to assess and establish the manufacturing capability etc. of the tenderer. Similarly, the Purchaser may also depute his inspector/Quality Surveillance agency of his choice for inspection of the plant/machinery/equipment/component during the various stages of manufacture in such an event the tenderer/contractor shall:-

27.1.1 Allow reasonable facility and free access to his factory/work/ records to the Inspector for the purpose of inspection or for ascertaining the progress of manufacture and delivery.

27.1.2 Provide the drawings, toolings, gauges, instruments etc. required for carrying out the inspection work.



- 27.1.3 Produce an inspection plan to the Purchaser's satisfaction notifying him when check points on the plan are imminent.
- 27.1.4 Not supply or deliver the plant/machinery/equipment/ component unless and until a Shipping Release or an authorisation for despatch is obtained in a format provided by the Purchaser. Failure to comply with this instruction will not only result in withholding of the payment to the contractor/supplier, but also hold the tenderer/contractor liable for payment of compensation to the Purchaser due to delay in clearance of the Equipment/plant/machinery/ component from the carriers.

**28.0 INSTRUCTION MANUAL**

In respect of plant/ machinery/ equipment/ instrument/ apparatus, where instruction/ operation manual is normally necessary to enable the user to put the plant/machinery/equipment/instrument/ apparatus to proper use, the Contractor shall furnish such an instruction/operation manual specific to the stores being supplied along with the plant/machinery/equipment/instrument/apparatus. The Contractor shall clearly specify in the offer about his readiness to supply instruction/operation manual

**29.0 PACKING**

- 29.1 Tenderers shall note that packing for shipment shall be in accordance with the instructions outlined in this tender document, each package shall be limited to the size and weights that are permissible under the existing Air and Sea limitations. Even when no packing specification is included in the invitation to tender, it will be Supplier's responsibility to provide appropriate packing depending upon the nature of the supply and the transportation and handling hazards.
- 29.2 The equipment shall be so packed and protected as not to suffer deterioration, damage or breakage during shipment and storage in a tropical climate.
- 29.3 Each package shall be properly labeled to indicate the type and quantity of material it contains, the purchase order number, its dimensions and weight and any other necessary data to identify the equipment and relate it to contract.

**30.0 DEVIATIONS TO PURCHASER'S SPECIFICATIONS AND CONDITIONS OF CONTRACT**

- 30.1 If any deviation or substitution from the technical specifications contained in Section "C" to this tender document is involved, such details should be clearly indicated in Part-I (Techno-Commercial) and should be added as an annexure to Part-I (Techno-commercial) of the tender as otherwise it shall be an admission on the part of the tenderer that he will supply the equipment as specified by the Purchaser. Similarly, deviations to the Purchaser's General Conditions of Contract/Special Conditions of Contract contained in Section "B" of this tender document shall be indicated by the tenderer in another annexure to Part-I (Techno-commercial) of the tenderer.

30.2 Part-II (Price) should be furnished in accordance with the format provided by the Purchaser at Section “D” of this tender document.

**31.0 DELIVERY**

Tenderer should note that no tender will be considered by the Purchaser unless the Tenderer can meet the delivery schedule specified by the Purchaser. All equipments/machinery/plant/ component covered by this tender document should be supplied on or before \_\_\_\_\_ or \_\_\_\_\_ month from the date of approval of drawings or \_\_\_\_ month from the date of receipt of free issue materials. The prices quoted by the tenderer should include all charges involved for direct and safe delivery of the items by Road to the project site of the Purchaser. If a tenderer so desires/separate lumpsum charges for transportation and safe delivery to Purchaser’s site could be furnished. Purchaser will neither undertake responsibility for transit insurance nor pay for it separately. No other, delivery term will be accepted by the Purchaser.

**32.0 ACCEPTANCE OF TENDERS**

32.1 The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reasons whatsoever.

32.2 Acceptance of tenders by the Purchaser will be sent by fax, E-mail, letter etc. within the validity date of the tender and such a fax, letter etc. would then be followed by a formal purchase order/contract. The tenderer whose offer is accepted will proceed with the execution of the contract on the basis of such advance acceptance of tenders without waiting for a formal purchase order/contract, and will be responsible to seek and obtain whatever clarifications that are necessary from the Purchaser to proceed with the manufacture without waiting for a formal purchase order/contract and delivery period will be reckoned from the date of the Letter of Intent.

**33.0 SETTLEMENT OF COMMERCIAL TERMS AND CONDITIONS OF CONTRACT**

In case the commercial terms and conditions of sale/contract stipulated in Part-I (Techno-commercial) of the tender submitted by the tenderer are at variance with the Purchaser’s General Conditions of all Contracts/Special Conditions of Contract stipulated in Section “B” of this tender document, the Purchase Officer will settle the commercial terms and conditions of contract with the tenderers chosen for award of the contract by holding discussions with them OR by sending Fax/Letter/E-mail etc. In case the concerned tenderer to whom an intimation thereof is given does not respond/fail to respond to communication sent by the Purchaser within the date specified, his tender is liable for rejection at the discretion of Director, IPR and no complaints whatsoever will be entertained from the tenderer for rejection of this tender. The tenderers should not discuss with the technical authorities/user department any of the commercial terms and conditions of contract and any agreement/understanding reached between the tenderer and the technical authorities will not be valid and binding.

34.0 **COMPLIANCE WITH THE SECURITY REQUIREMENTS OF THE PURCHASER**

The Contractor shall strictly comply with the Security Rules and Regulations of the Purchaser in force and shall complete the required formalities including verification from Police and any other authority and obtain necessary prior permission for entry into the Purchasers premises, wherever authorized by the Purchaser.

35.0 **PAST PERFORMANCE**

In case the past performance of the tenderer is not found to be satisfactory with regard to quality, delivery, warranty obligation and non-fulfillment of terms and conditions of the contract, their offer is liable to be rejected by the purchaser.

36.0 **CAPACITY & FINANCIAL STANDING**

In case it is found that the tenderer does not possess the requisite infrastructure, capacity, capability and their financial standing is not satisfactory, such tender is liable to be rejected by the Purchaser.

37.0 **CONFIDENTIALITY**

Drawings, specifications, prototypes, samples or any other correspondence/details/information provided by the Purchaser relating to the tender or the contract shall be kept confidential by the contractor, and should not be disclosed or passed on to any other person/firm without the prior written consent of the purchaser. This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by the Contractor.

38.0 **RESTRICTED INFORMATION CATEGORIES UNDER SECTION 18 OF THE ATOMIC ENERGY ACT, 1962 AND OFFICIAL SECRETS UNDER SECTION 5 OF THE OFFICIAL SECRETS ACT, 1923**

Any contravention of the above mentioned provisions by the contractor, sub-contractor, consultant, adviser or the employees of the contractor will invite penal consequences under the aforesaid legislation.

39.0 **PROHIBITION AGAINST USE OF THE NAME OF ANY INSTITUTION OF DEPARTMENT OF ATOMIC ENERGY WITHOUT PERMISSION FOR PUBLICITY PURPOSES**

The Contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use the name of any Institution of Department of Atomic Energy for any publicity purpose through any public media like Press, Radio, TV or Internet without the prior written approval of the Purchaser.

40.0 **FREE ISSUE MATERIAL** *(This clause shall apply only to contracts for supply of fabricated equipment with purchaser's Free Issue Materials (FIM)).*

40.1 Wherever contracts envisage supply of Free Issue Material (FIM) by the Purchaser to the contractor, such Free Issue Material shall be safeguarded by an insurance policy to be provided by the Contractor at his own cost for the full value of such materials and the insurance policy shall cover, the following risks specifically and shall be valid for six months beyond the contractual delivery date.

- **Risk to be covered:** Any loss or damage to the Purchaser's material due to fire, theft, riot, burglary, strike, civil commotion, terrorist act, natural calamities etc. and any loss or damage arising out of any other causes such as other materials falling on purchaser's materials.
- **Insured by:** (Name of the Contractor)
- **Beneficiary:** Institute for Plasma Research, Near Indira Bridge, Bhat, Gandhinagar-382428.
- **Amount for which insurance policy to be furnished:** The amount will be indicated in the respective contract.

Free Issue Material (FIM) will be issued to the Contractor only after receipt of the Insurance Policy from the Contractor. The contractor shall arrange collection of the FIM from the Purchaser's premises and safe transportation of the same to his premises at his risk and cost.

Notwithstanding the insurance cover taken out by the Contractor as above, the contractor shall indemnify the purchaser and keep the Purchaser indemnified to the extent of the value of free issue materials to be issued till such time the entire contract is executed and proper account for the FIM is rendered and the left over/surplus and scrap items are returned to the Purchaser. The contractor shall not utilize the Purchaser's free issue materials for any job other than the one contracted out in this case and also not indulge in any act, commission or negligence which will cause/result in any loss/damage to the Purchaser and in which case, the Contractor shall be liable to the Purchaser to pay compensation to the full extent of damage/loss. The Contractor shall be responsible for the safety of the free issue materials after these are received by them and all through the period during which the materials remain in their possession/control/ custody. The free issue materials on receipt at the Contractor's works shall be inspected by them for ensuring safe and correct receipt of the material. The Contractor shall report the discrepancies, if any, to the Purchaser within 5 days from the date of receipt of the material. The Contractor shall take all necessary precautions against any loss, deterioration, damage or destruction of the FIM from whatever cause arising whilst the said materials remain in their possession/custody or control. The FIM shall be inspected periodically at regular intervals by the Purchaser for ensuring safe preservation and storage. The contractor shall also not mix up the FIM with any other goods and shall render true and proper account of the materials actually used and return balance remaining unused material on hand and scrap along with final product and if it is not possible within a period of one month from the date of delivery of the final product covered by this purchase order. The Contractor shall also indemnify the Purchaser to compensate the difference in cost between the actual cost of the FIM lost/damaged and the claim settled to the Purchaser by the insurance company. The decision of the Director, Institute for Plasma Research, as to whether the Contractor has caused any loss, destruction, damage or deterioration of the FIM while in his possession, custody or control from

whatever cause arising and also on the quantum of damage suffered by the government, shall be final and binding upon the Contractor.

**41.0 EXPORT LICENCE/EXPORT PERMISSION**

41.1 It is entirely the responsibility of the vendors who are quoting for materials of foreign origin to ensure obtaining export permission/licence/authorisation as required from the respective Government before arranging shipment. This Department would not accept post supply inspection by any agency/authority of any foreign country. It is, therefore, necessary that the vendors offering materials from foreign countries shall have thorough knowledge of export contract regulations in vogue in those countries.

41.2 The vendors shall indemnify the purchaser against any consequences in respect of any end-use declaration they/their overseas Principals may furnish to the government/government agencies of the country of origin of the materials, while seeking export permission/licence. Post supply inspection, contrary to the terms and conditions of purchaser's contract shall be deemed to be null and void.

**42.0 END USE CERTIFICATE**

42.1 Whenever an End-use Certificate is desired by the vendor, the same shall be clearly mentioned in the quotation and the purchaser shall provide an Enduser Certificate as per the format given below. The Purchaser will not provide any other document/declaration in this regard.

**END USER STATEMENT:**

*"We hereby certify that the item/s i.e. \_\_\_\_\_, being procured from M/s \_\_\_\_\_ against our Purchase Order No. \_\_\_\_\_ dated \_\_\_\_\_ will be used for \_\_\_\_\_. We also certify that the item/s will not be used in designing, developing, fabricating or testing of any chemical, biological, nuclear, or weapons of mass destruction or activities related to it. It is further certified that we will not re-export the Item/s prior to obtaining permission from the concerned authorities as may be required".*

**43.0 COUNTRY OF ORIGIN**

43.1 Wherever the tenders are for imported stores, the Country of Origin of the stores must be clearly specified in the quotation.

**44.0 LIABILITY**

44.1 Vendors shall be liable for any damage to the purchaser or any third party out of any patent or latent defect in the goods supplied by him or sub-standard services rendered by him.

**45.0 RIGHT TO REJECT QUOTATION**

45.1 The Purchaser reserves the right to reject any quotation, which is not in conformity with the above instructions.

45.2 The Purchaser also reserve the right to reject any quotation without assigning any reason whatsoever.

46.0 **PRICE / PURCHASE PREFERENCE**

Purchase/Price preference to industries will be given as per the policy of the Government of India in force at the time of evaluation provided their offer is in compliance with the conditions of the policy.

47.0 **PERMANENT ACCOUNT NUMBER (PAN)**

47.1 Vendors are required to upload a true copy of the PAN Card/Letter issued by the Income-tax Department, failing which the tenders are liable to be rejected.

48.0 MSE bidders should declare their UAM (Udyog Aadhar Memorandum) number on CPPP portal to avail benefits as per Public Procurement Policy for MSE's order 2012.

49.0 The bidder shall not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government Agencies.

Any additional conditions attached to this Invitation to Tender shall also form part of the contract conditions.

**SECTION 'B'**

**GENERAL CONDITIONS OF  
CONTRACT**

**INSTITUTE FOR PLASMA RESESARCH  
PURCHASE SECTION**

**GENERAL CONDITIONS OF ALL  
CONTRACT**

**&**

**SPECIAL CONDITIONS OF CONTRACT  
GOVERNING SUPPLIES OF  
PLANT AND MACNHINERY**



## **GENERAL CONDITIONS OF CONTRACT**

### **1. DEFINITIONS**

- 1.1 The term 'PURCHASER' means the Institute for Plasma Research or its successors or assigns.
- 1.2 The term 'PARTICULARS' means the following:
  - 1.2.1 Specification
  - 1.2.2 Drawing
  - 1.2.3 Sealed pattern denoting a pattern sealed and signed by the Inspector
  - 1.2.4 Proprietary make denoting the produce of an individual firm
  - 1.2.5 Any other details governing the construction manufacture and/or supply as existing for the contract.
- 1.3 The term 'CONTRACTOR' or 'SUPPLIER' means, 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 (approved by the Purchaser), representatives, heirs, executors and administrators unless excluded by the contract.
- 1.4 The term 'CONTRACT' or 'PURCHASE ORDER' means and comprises of a Letter or Email or ink signed or digitally signed document conveying acceptance of Contractor's offer and invitation to tender, tender containing offer, advance acceptance of offer, general and special conditions of contract specified in the acceptance of offer and any subsequent amendments/alterations thereto made on the basis of mutual agreement.
- 1.5 The term 'STORES' or 'MATERIAL' means, the goods specified in the contract/purchase order which the contractor has agreed to supply under the contract.
- 1.6 The term 'SUB-CONTRACTOR' or 'SUB-SUPPLIER' means any contractor or supplier engaged by the contractor or the supplier with the prior approval of the Purchaser in relation to the contract/purchase order.
- 1.7 The term 'INSPECTOR' or 'QUALITY SURVEYOR' means any person nominated and deputed by the purchaser or their appointed Consultants or Quality Surveillance Agency or any other person from time to time authorized by the Purchaser to act as his representative for the purpose of inspection of stores under the contract/purchase order.

### **2. AUTHORITY OF PERSON SIGNING THE CONTRACT ON BEHALF OF THE CONTRACTOR**

The person signing the contract or the purchase order or any other document in respect of the contract or purchase order on behalf of the contractor shall be deemed to warrant that he has the authority to bind the contractor.

**3. SUBLETTING OF CONTRACT OR BILLS OR ANY BENEFIT ACCRUING THEREFROM**

- 3.1 The Contractor shall not sublet, transfer or assign the Contract or any part thereof or bills or any other benefits, accruing therefrom or under the contract without the prior written consent of the Purchaser (All Sub-contractors are required to be appraised and approved by the Purchaser before placement of orders by the Contractor/Supplier). However, such consent shall not be unreasonably withheld by the Purchaser, if such stores are not normally manufactured by the Contractor, such assignment or subletting shall not relieve the Contractor from any contractual obligation or responsibility under the Contract.
- 3.2 Any breach of this condition shall entitle the Purchaser to cancel the Contract or any part thereof and to purchase from other sources at the risk and cost of the Contractor and shall recover from the Contractor damages arising from such cancellations.
- 3.3 In case the Contractor sublets, transfers or assigns any part of the Contract with the prior written consent of the Purchaser, all payments to the Sub-Contractor shall be the responsibility of the Contractor and any requests from such sub-Contractor shall not be entertained by the Purchaser.

**4. SECURITY DEPOSIT**

- 4.1 On acceptance of tender, the Contractor shall at the option of the Purchaser and within the period specified by him, submit a Bank Guarantee from SBI or any one of the nationalized banks or reputed private banks, viz. AXIS Bank, ICICI Bank, IDBI Bank and HDFC Bank towards Security Deposit not exceeding 10% (ten percent) of the tendered value of the contract/purchase order valid till at least 2 months beyond the acceptance date of the material, as the Purchaser shall specify.
- 4.2 If the Contractor is called upon by the Purchaser to submit Security Deposit and the contractor fails to provide the same within the period specified such failure shall constitute a breach of the Contract and the Purchaser shall be entitled to make other arrangements for the repurchase of the stores contracted for at the risk and expenses of the Contractor in terms of clause 9.2.4 hereof and/or recover from the Contractor damages arising from such cancellation. No claim shall lie against the purchaser either in respect of interest if any due on Security Deposit or depreciation in value.
- 4.3 Offers wherein contractors declined to submit Security Deposit are liable to be rejected.

**5. DRAWINGS & SPECIFICATIONS**

- 5.1 The drawings and specifications are intended to be complementary and to provide for an comprise everything necessary for the completion of supply. Any material shown on the drawing even if not particularly described in specifications or vice versa is to be supplied by the Contractor as if it were both shown and specified.

- 5.2 Should any discrepancy be noted in the drawings and/or specifications and should any interpretation of the same be required, the matter shall be referred to the Purchaser for clarification which shall be binding upon the contractor. Otherwise, the contractor shall assume responsibility for the interpretation of the drawings and specifications including interpretation by his sub-contractors.
- 5.3 Should any difference or dispute arise with regard to the true intent and meaning of drawings or specification or should any portion of the same be obscure or capable of more than one interpretation, the same shall be decided by the Purchaser whose decision shall be final.
- 5.4 All lettering on the drawings is to be considered as part of the specification and contract. In all cases figured dimensions are to be followed rather than those indicated by scale. Large scale drawings will take precedence over small scale drawings.
- 5.5 The contractor's drawings shall, when approved by the Purchaser, be deemed to be included in the list of drawings which form part of the contract. The Contractor shall not proceed with fabrication until all drawings associated therewith have been duly approved by the Purchaser.
- 5.6 The Contractor shall be responsible for and shall pay for any alterations of the stores and shall indemnify the Purchaser for any consequential expenditure incurred by the Purchaser due to any discrepancies, errors, omissions in the drawings or other particulars supplied by him whether such drawings or specifications have been approved by the Purchaser or not, provided that such discrepancies, errors or omissions be not due to inaccurate information or specifications furnished to the contractor on behalf of the Purchaser.
- 5.7 **General Warranty**
- 5.7.1 The stores supplied by the contractor under the contract shall be of best quality and workmanship. The contractor shall supply the stores in accordance with the contract specifications unless any deviation has been expressly specified in the contract and any amendments agreed thereto.
- 5.7.2 The contractor's offer to supply stores in accordance with the tender specifications shall be deemed to be in admission on his part that he has fully acquainted himself with the details thereof and no claim shall lie against the Purchaser on the ground that the contractor did not examine or acquaint himself fully with the tender specifications.
- 5.8 **Contractor's Liability for Defective Stores**
- 5.8.1 For a period of twelve months after the stores have been accepted by Purchaser the Contractor shall be responsible for any defects that may be discovered therein notwithstanding that such defects could have been discovered at the time of inspection or any defects therein are found to have developed under proper use, arising from faulty materials, design or workmanship and the Contractor shall remedy all such defects as aforesaid at his own cost provided he is called upon within a period of 14 months from the date of acceptance thereof to do

so, by the Purchaser who shall state in writing in what respect the goods are faulty and further if in the opinion of the Purchaser the defects are of such a nature that it is necessary to replace or renew any defective stores, such replacement or renewal shall be made by the Contractor without any extra costs to the Purchaser, provided notice informing the Contractor of the defect is given by the Purchaser within the said period of 14 months. The decision of the Purchaser notwithstanding any prior approval or acceptance of the Inspector as to whether or not the stores delivered are defective or any defect has developed within the said period of twelve months or as to whether the nature of defects renewal or replacement shall be final conclusive and binding on the Contractor.

## **6. ALTERATIONS**

- 6.1 The Purchaser may, from time to time, make changes in the drawings specifications and issue additional instructions without altering the purchase order in any manner provided that no changes shall have been ordered which materially alter the character and scope of the supply under the contract.
- 6.2 It shall be lawful for the parties to the contract to alter by mutual consent at any time and from time to time the drawings and specifications and as from the dates specified by him stores to be supplied shall be in accordance with such altered drawings and specifications provided that if any such alterations involve increase or decrease in the cost of or in the period required for production, a revision of the contract price and/or the period prescribed for delivery shall be made by mutual agreement in respect of the stores to which the alteration applies. In all other respects, the contract shall remain unaltered.

## **7. SAMPLES**

- 7.1 Samples submitted for any reason shall be supplied without charge and freight paid without any obligation of the Purchaser as regards safe custody or safe-return thereof. All samples submitted must be clearly labelled with the Contractor's name and address and tender number. If the Contractor submits the sample with his tender the same shall not govern the standard of supply except when it has been specifically stated in the Purchase Order that it is accepted instead of any sealed pattern. Should certified samples be lent to the Contractor by the Purchaser, the Contractor is responsible for the return in perfect order of all certified samples with the labels intact.

## **8. PACKING**

- 8.1 The contractor shall be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air so as to ensure their being free from any loss or damages on arrival at their destination. The packing and marking of packages shall be done by and at the expenses of the Contractor. Each package shall contain a Packing

Note quoting Purchase Order number and date and showing its contents in detail.

- 8.2 Unless otherwise provided in the contract all containers (including packing cases, boxes, tins, drums and wrappings) in which the stores are supplied by the contractor shall be considered as property of the Purchaser and their cost as having been included in the contract price.

**9. DELIVERY:**

**9.1 TIME FOR AND DATE OF DELIVERY, THE ESSENCE OF THE CONTRACT:**

The time for and the date of delivery of the stores stipulated in the purchase order/contract shall be deemed to be of the essence of the contract and delivery must be completed not later than the date/dates stipulated.

**9.2 EXTENSION OF DELIVERY SCHEDULE**

- 9.2.1 If any delay in delivery shall have arisen from any cause such as strike, Lock-outs, fire, accidents, riot or the like which the purchaser may admit as reasonable ground for grant of extension of delivery schedule, the purchaser will allow such additional period for the purpose as he may consider necessary taking the circumstances into consideration.
- 9.2.2 If the contractor fails to deliver the stores or any instalment or part thereof within the period fixed for such delivery or such additional period allowed by the purchaser in accordance with foregoing paragraphs or any time before the expiry of such period repudiates the contract, the Purchaser may without prejudice to the rights of the purchaser.
- 9.2.3 Recover from the contractor as Liquidated Damages and not by way of penalty as detailed under clause No.222 given herein below for any stores which the contractor has failed to deliver within the period fixed for delivery in the contract or such additional period as mentioned in paragraph 9.2.1. during which the delivery of such stores, may be in arrears where delivery thereof is accepted after expiry of the aforesaid period. (For the purpose of computing the damages for delayed supplies under the clause, the cost of the entire plant/machinery/equipment/instrument will be taken into consideration if the plant/machinery/equipment/instrument cannot be put to the intended use for want of delayed portion of supply).
- 9.2.4 Purchase or authorise the purchase elsewhere without notice to the contractor, on account and at the risk of the contractor of the stores not so delivered or others of a similar description (where stores exactly complying with the contract specification are not in the opinion of the Purchaser, which opinion shall be final, readily procurable) without cancelling the contract in respect of the portion instrument not yet due of delivery, OR
- 9.2.5 Cancel the contract or portion thereof and if so desired purchase or authorise purchase of the stores not so delivered or others of a similar description (where stores exactly complying with the contract specification are not in the opinion of the Purchaser, which opinion shall be final, readily procurable) at the risk and cost of the contractor, if the contractor had defaulted in the performance of the original contract, the purchaser shall have the right to ignore his offer in response to risk purchase enquiry even though the lowest.

- 9.2.6 Where action is taken under sub-clause 9.2.4 or sub-clause 9.2.5 above the contractor shall be liable for any loss which the purchaser may sustain on that account provided that the repurchase, or if there is an agreement to repurchase then such agreement, is made within a reasonable period from the date of such failure, depending upon the nature / merit of the purchase and in case of repudiation of the contract before the expiry of the aforesaid period of delivery, shall not be entitled to any gain on such purchase and the manner and method of such purchase shall be in the entire discretion of the Purchaser. It shall not be necessary for the purchaser to serve a notice of such purchase on the contractor.

## **10. INSPECTION**

- 10.1 The contractor shall be responsible for and perform all inspection and testing required in accordance with the contract/purchase order and specifications included herewith.
- 10.2 The Purchaser may at his option depute his representative for Inspection of the stores to be supplied under the contract or authorize and nominate a Quality Surveillance Agency of his choice for the purpose hereinafter called, in either case, the inspection.
- 10.3 The contractor shall give notice of readiness for inspection to the Inspector (deputed under clause 10.2 above) so that the Inspector can be present at the requisite time. In such an event delivery shall not be effected until an authorization or shipping release is obtained from the Purchaser's Inspector.
- 10.4 The contractor shall allow reasonable facility and free access to his work/factory and records to the inspector for the purpose of inspection or for ascertaining the progress of delivery under the contract.

## **11. RECTIFICATION AND REPLACEMENT OF DEFECTIVE STORES**

- 11.1 If the inspector find that the contractor has executed any unsound or imperfect work, the inspector shall notify such defects to the contractor and the contractor on receiving the details of such defects or deficiency, shall at his own expenses, within seven days or otherwise within such time as may be mutually agreed upon as reasonably necessary, proceed to alter, reconstruct or remanufacture the stores to the requisite standard and specifications as called for by the tender specification.

## **12. INSPECTION AND REJECTION**

- 12.1 **Inspection and Rejection:** The stores shall be tendered by the Contractor for inspection at such places as may be specified by the Inspector, at the Contractor's own risk, expenses and costs and shall lie at such places of inspection at the risk of the Contractor and the stores will be subject to inspection and test as may be considered necessary by the inspector and his decision as regards rejection of goods shall be final and binding on the Contractor. If any goods are rejected as aforesaid, then without prejudice to the foregoing provision, the Purchaser shall be at liberty to
- 12.1.1 Allow the Contractor to re submit without prejudice to the Purchaser's right to claim and recover Liquidated damages as provided in clause 9.2.3 hereof, stores in replacement of those rejected within a time specified by the Purchaser (which time shall be essence of the contract), the contractor bearing the

- cost of freight for such replacement without being entitled to any extra payment, or
- 12.1.2 Buy the quantity of stores rejected or others of a similar nature elsewhere at the risk and cost of the Contractor in accordance with the provisions contained in second paragraph of clause 9.2.4 thereof without effecting the Contractor's liability as regards the supply of any further consignments due under the Contract, or
- 12.1.3 Terminate the Contract and recover from the Contractor the loss Purchaser thereby incurred
- 12.2 **Removal of rejection:** Any stores submitted for inspection and rejected by the Inspector must be removed by the Contractor within fourteen days from the date of receipt of intimation of rejection, provided that in the case of dangerous infected or perishable stores, the Inspector (whose decision shall be final) shall notify the Contractor to remove such stores within 48 hours of receipt of intimation of rejection and it shall be the duty of the Contractor to remove them accordingly. Such rejected stores shall lie at the Contractor's risk from the time of such rejection and if not removed within the aforementioned time, the Purchaser shall have the right either to return the rejected stores to the Contractor at the Contractor's risk by such mode of transport as Purchaser may select or to dispose off or segregate such stores as he thinks fit at the Contractor's risk and on his accounts and to appropriate such portion of the proceeds as may be necessary to cover any loss or expenses incurred by the Purchaser in connection with the said sale. Freight to destination of stores rejected after examination at destination shall be recoverable from the Contractor at the Tariff Rate.
- 12.3 **Test Certificate and Guarantees:** Test Certificate Guarantees, if required by the Inspector shall be obtained and furnished by the Contractor free of costs.

### **13. RECOVERY OF SUMS DUE**

- 13.1 Whenever any claim for payment of, whether liquidated or not, moneys arises out of or under this contract against the Contractor the Purchaser shall be entitled to recover sum by appropriating, in part or whole, by encashing the Bank Guarantee submitted towards Security deposit by the Contractor, if a Security Deposit is taken against the Contract. In the event of the security being insufficient or no Security Deposit has been taken from the Contractor then the balance or the total sum or which at any time hereafter 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.
- 13.2 All demurrage, wharfage and allied expenses incurred by the Purchaser, if any, due to delayed clearance of Stores in view of non receipt, incomplete or delayed receipt of documents by the Purchaser, shall be recovered from the payment due to the Contractor.

**14. BAR/PERT CHART**

- 14.1 The contractor at the discretion of the Purchaser shall submit the BAR/PERT chart indicating various activities from the date of purchase order to handing over of the stores.

**15. PERFORMANCE BANK GUARANTEE**

- 15.1 In the event of acceptance of the offer in respect of plant, machinery, equipment, instrument, etc. the tenderer will be required to submit a performance bank guarantee for 10% of the total value of the stores inclusive of all statutory levies and other charges admitted in the contract, from SBI/any nationalized bank or private sector banks, namely, ICICI Bank, IDBI Bank, HDFC Bank and AXIS Bank, on a non-judicial stamp paper of appropriate value valid till 2 months beyond the expiry date of warranty period as per the Purchaser's format towards satisfactory performance of the plant, machinery, equipment, instrument, etc. during the warranty period. In case of bids in currency other than INR performance bank guarantee shall be furnished from any bank of international repute.
- 15.2 In case of non-submission of performance bank guarantee by the Contractor, an amount equivalent to 10% of the total value of the stores and other charges admitted in the contract will be retained by the purchaser till the expiry of the warranty period of the stores.
- 15.3 Offers of the tenders who are not agreeable to furnish performance bank guarantee or retaining of an equivalent amount by the purchaser as per clause No.15.1 and 15.2 above, are likely to be rejected.

**16. PERMIT AND LICENCES**

- 16.1 The contractor shall secure and pay all licenses and permit at his end which he may be required to comply with all laws ordinances and regulations of the public authorities in connection with the performance of his obligations under the contract. The contractor shall be responsible for all damages and shall indemnify and save the purchaser harmless from against all claims for damages and liability which may arise out of the failure of the contractors to secure and pay for any such licenses and permits or to comply fully which any and all applicable laws ordinances and regulations.

**17. PATENTS & PATENT RIGHTS INDEMNIFICATION**

- 17.1 The Contractor shall indemnify and keep indemnified the Purchaser from and against any and all claims, actions, costs, charges and expenses arising from or for infringement of patent rights, copy right or other protected rights, of any design plans, diagrams, drawings in respect of the stores supplied by the contractors or any of the manufacturing methods or process adopted by contractor for the stores supplied under the contract.
- 17.2 In the event of any claim being made or action being taken against the purchaser in respect of the matter referred to clause 17.1 above, the contractor shall promptly be notified thereof and he shall at his own expense, conduct all negotiations for the settlement of the same and any litigation that may arise therefrom.
- 17.3 In the event of any designs, drawing, plans or diagrams or any manufacturing methods or process furnished by the contractor constituting infringement of patent or any other protected rights and use thereof is restrained, the contractor shall procure for Purchaser, at



no cost to the latter, the rights to continue using the same or to the extend it is possible to replace the same so as to avoid such infringement and subject to approval by the Purchaser or modify them so that they become non-infringing, but such modifications shall otherwise be to the entire satisfaction of the Purchaser.

17.4 The provision of the clause remains effective and binding upon the Contractor even after the completion, expiration or termination of the contract.

## **18. LAW GOVERNING THE CONTRACT**

18.1 This Contract shall be governed by the laws of India for the time being in force. The marking of all stores supplied must comply with the requirements of India Acts relating to Merchandise Marks and all the rules made under such Acts.

## **19. JURISDICTION**

19.1 The Courts within the local limits (i.e. Gandhinagar) of whose jurisdiction the place from which the purchase order is issued is situation only shall, subject to Arbitration Clause, have jurisdiction to deal with and decide any matter out of this Purchase Order/Contract.

## **20. SETTLEMENT OF DISPUTES**

20.1 The Purchaser and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

20.2 If the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

## **21. ARBITRATION**

21.1.1 In the event of any dispute or difference arising out or of in connection with any of the terms and conditions of the Purchase Order/Contract, the matter shall be referred to the Director, IPR for settlement. In case the parties to the Purchase Order are not in a position to settle the dispute mutually, the matter shall be referred to a Sole Arbitrator to be appointed in accordance with the Arbitration & Reconciliation Act, 1996 & Arbitration and Conciliation (Amendment) Act, 2015 as amended time to time.

## **22. LIQUIDATED DAMAGES**

22.1 As per Standard Terms & conditions, the Purchaser reserves the right to levy the Liquidated Damages, for delay in supply beyond the contractual delivery date at the rate of half percent (0.5 percent) of the total Contract price (Basic price) for each calendar week of delay. The total liquidated damages shall not exceed five percent (5%) of the contract price (Basic price). Stores/Goods will be deemed to have been delivered only when all its component parts are also delivered. If certain

components are not delivered in time, the Stores/Goods will be considered as delayed until such time as the missing parts are delivered.

- 22.2 Where the Contract entered into is a composite one with supply cum erection and installation/commissioning activities and the completion of erection and installation/commissioning is delayed irrespective of the fact that whether supply of material has been made within the original delivery period, the contract is to be considered as a whole and Liquidated Damages will be recovered on the total contract value.

**23. EXERCISING THE RIGHTS AND POWERS OF THE PURCHASER**

- 23.1 All the rights, discretions and powers of the Purchase under the contract shall be exercisable by and all notices on behalf of the Purchaser shall be given by the Purchase Officer and any reference to the opinion of the Purchaser in the terms and conditions contained in these General Conditions of all Contracts shall mean and be construed as reference to the opinion of any of the persons mentioned in this clause.

**24. TRAINING**

- 24.1 The successful tenderer shall, if required by the Purchaser, provide facilities for the practical training of Purchaser's engineering or technical personnel for their active association on the manufacturing process throughout the manufacturing period of the Contract/stores, number of such personnel to be mutually agreed upon. If demanded by the Purchaser, such training shall be conducted at Purchaser's site by the Contractor free of charge. The duration of training shall be mutually decided upon by the Purchaser and the Contractor.

**25. RISK PURCHASE**

- 25.1 In the event supplier fails to fulfill the contractual obligations as per the terms and conditions of the Contract, the Purchaser has an option of completing the Contract at the risk and expenses of the Contractor. While initiating risk purchase at the risk and expenses of the supplier, the Purchaser must satisfy himself that the supplier has failed to deliver and he has been given all the opportunities as per the Contract to execute the Contract and also adequate and proper notice. Wherever risk purchase is resorted to, the supplier is liable to pay the additional amount spent by the government, if any as compared to contracted amount. All the factors including the method of recovering such amount should also be considered while taking a decision to invoke the risk purchase.

**26. LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS**

- 26.1 Any sum of money due and payable to the Contractor under any contract may be withheld or retained by way of lien by the purchaser or any other person or persons contracting through the Director, IPR against any claim of the Purchaser or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Purchaser or with other such person or persons.
- 26.2 It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Purchaser will be kept withheld or retained as such by purchaser till this claim arising out of in the same

contract or any other contract is either mutually settled or determined by the arbitrator, and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

## **SPECIAL CONDITIONS OF CONTRACT GOVERNING SUPPLIES OF PLANT AND MACHINERY**

In addition to the General Conditions of Contract hereinbefore set out the following special conditions shall apply to contracts for the supply of Plant and Machinery and manufactured equipment. These Special Conditions where they differ from the General Conditions shall over-ride the later.

### **27. DEFINITION OF PLANT**

27.1 The word "PLANT" wherever, appears in these "Special Conditions of Contract governing supplies of Plants and Machinery" shall mean all machinery, plants, equipment or parts thereof or what the Contractor agrees to supply under contract as specified in the Purchase Order.

### **28. MISTAKES IN DRAWING**

28.1 The Contractor shall be responsible for and shall pay for an alterations of the works due to any discrepancies, errors or omissions in the drawings or other particulars supplied by him whether such drawings or particulars have been approved by the Purchaser or not.

### **29. RESPONSIBILITY FOR COMPLETENESS**

29.1 All fittings or accessories which may not be specifically mentioned in the specification but for which are usual or necessary, are to be provided by the Contractor without extra charge and the plant must be complete in all respects.

### **30. REJECTION OF DEFECTIVE PLANT**

30.1 If the completed plant or any portion thereof before it is finally accepted is found to be defective or fails to fulfill the requirements of the contract, the Purchaser shall give the Contractor notice setting forth with the details of such defects or failure and the contractor shall forthwith rectify the defective plant or alter the same to make comply with the requirement of the contract. Should the contractors fail to do so within a reasonable time the Purchaser may reject and replace at the cost of the Contractor, the whole or any portion of the Plant as the case may be, which is defective or fails to fulfill the requirement of the contract. Such replacement shall be carried out by the Purchaser within a reasonable time and at reasonable price and where reasonably possible to the same specifications and under competitive conditions. The Contractor shall be liable to pay to the Purchaser the extra cost, if any, of such replacement delivered and or erected as provided for in the contract such extra cost being the difference between the price paid by the Purchaser under the provisions above mentioned for such replacement and the contract price for them. Contractor shall refund to Purchaser any sum paid by the Purchaser to the Contractor in respect of such defective plant.

### **31. INSPECTION AND FINAL TESTS**

31.1 All tests necessary to ensure that the plant complies with the particulars and guarantees shall be carried out at such place or places as may be determined by the inspector. Should, however, it be necessary for the final tests as to performance or guarantees to be held over until the Plant is erected at site they shall be carried out within

one month of completion of erection.

**32. TRANSPORT AND RESPONSIBILITY FOR BREAKAGES EN-ROUTE**

32.1 Unless otherwise specified the Purchaser will take delivery of the plant from the place named in the purchase order but the contractor will be responsible for any damage which may be caused to the Plant during transit to the site of erection thereof.

**33. ERECTION AND COMMISSIONING**

33.1 In all cases where contracts provide for supervision of erection and commissioning or for test at the Purchaser's premises the Purchaser except where otherwise specified, shall provide free of charge, such labour, materials, fuels, stores, apparatus and instruments as may be required from time to time and as may reasonably be demanded by the contractor to carryout efficiently such supervision of erection and commissioning and for the requisite test. In case of contracts requiring electricity for the completion of erection, commissioning and testing at site, such electricity shall be supplied free to the contractor.

33.2 Action by the Purchaser under the clause shall not relieve the contractor of his warranty obligations under the contract.

**34. WARRANTY**

34.1 The contractor warrants that stores to be supplied under the contract shall be free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for stores of the types under the contract in full conformity with the specifications, drawings or samples, if any and shall if operable, operate properly. This warranty shall expire (except in respect of complaints notified to the contractor prior to such date) twelve months after the date of receipt of the last lot of stores under the contract at the ultimate destination stipulated in the contract.

34.2 For a period of twelve calendar months after the plant/machinery/equipment/instruments has been put into operation (or a suitable mutually agreed longer period to be reckoned from the date of last major shipment depending upon the nature of the plant/machinery/equipment/instrument) the Contractor shall be responsible for any defects that may develop under conditions provided for the contract and under proper use, arising from the faulty materials, design or workmanship in the plant or from faulty erection of the plant by the Contractor, but otherwise and shall rectify such defects at his own cost when called upon to do so by the Purchaser who shall state in writing such defects.

34.3 If it becomes necessary for the Contractor to replace or renew any defective portions of the plant for purpose of rectification under this clause, the provisions of this clause shall apply to the portions of the plant so replaced or renewed under the expiration of six months from the date of such replacement or renewal or until the end of the above mentioned period of twelve months whichever may be the later. If any defects not rectified within reasonable time, the purchaser may proceed to get the work done at contractor's risk and expenses but without prejudice to any other rights which the Purchaser may have against the Contractor in respect of such defects as provided in clause 9.2.4 or 9.2.5.

- 34.4 All inspections adjustments, replacements or renewals carried out Contractor during the warranty period shall be subject to the same conditions as in the contract.
- 34.5 Contractor shall, spare parts of equipment before going out of production, give adequate advance notice to the purchaser so that the latter may order requirement of spares in one lot if so desires.
- 34.6 The contractor shall further guarantee that if spare parts go out of production, will make available blue prints, drawings of spare parts and specifications of material at no cost to the Purchaser, if and when required in connection with the equipment to enable Purchaser to fabricate or procure spare parts from other sources.
- 34.7 The provision of this clause shall remain effective and binding upon the Contractor even after the completion or expiration of the contract and till the plant/machinery/equipment supplied under the contract is in use by the Purchaser.

### **35. MODE OF PAYMENT**

- 35.1 Unless otherwise agreed to in writing between the Purchaser and the Contractor, payment for the delivery of the material will be made as follows.
- Within 30 days from the date of final acceptance and on receipt of Performance Bank guarantee for 10% of the contract value amount from SBI/nationalized banks or any one of the scheduled banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank) valid through out the guarantee period mentioned in the contract/purchase order.**
- 35.1.1 In case any of the vendors seek advance or progressive payment prior to delivery of the material, such requests can be considered only in exceptional cases of large value items, in which case the vendor will be required to furnish a bank guarantee for an equivalent amount of the advance/progressive payment sought for, valid till the execution of the contract. The bank guarantee shall be got executed as per the Purchaser's format from the State Bank of India (SBI)/nationalized banks or any one of the scheduled banks mentioned in the bracket (Axis Bank, HDFC Bank, ICICI Bank and IDBI Bank).
- 35.1.2 Besides, the offers of the vendors seeking advance/progressive payment will be evaluated by loading 12% interest charges per annum on the amount of advance desired up to the delivery period quoted.
- 35.1.3 In case any of the vendors seek pro-rata payment for the stores to be supplied they should clearly mention in their offer the maximum number of installments of supply. However, such installment delivery and pro-rata payment will be considered only in respect of contract involving large value and sizeable quantity of the item and the maximum number of installments shall be normally restricted to four. Acceptance or otherwise of this condition is reserved by the purchaser.
- 35.1.4 **Bank Charges:** All bank charges to be borne by the Contractor/Supplier.
- 35.1.5 No correspondence will be entertained within 30 days from the date of receipt of material and bills, whichever is later.
- 35.1.6 **Interest for delay in supply beyond the contractual delivery date:** Wherever advance payments are sought for by the contractor and

admitted in the contract, against Bank Guarantee for equivalent amount, in the event of any delay in supply beyond the contractual delivery date for reasons attributable to the contractor, interest charges @ 12% shall be levied for the period beyond the contractual delivery date, on the amount of balance advance payment to be adjusted.

**36. DELAY IN ERECTION**

36.1 Wherever erection of a plant or machinery is the responsibility of the Contractor as a term of the contract and in case the Contractor fails to carry out the erection as and when called upon as to do within the period specified by the Purchaser, the Purchaser shall have right to get the erection done through any source of his choice. In such an event, the contractor shall be liable to bear any additional expenditure that the Purchaser may incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the Purchaser.

**SECTION 'C'**

**TECHNICAL SPECIFICATIONS  
OF  
STORES AND DRAWINGS**



***Please refer tender document***

## **SECTION 'D'**

# **FORMAT FOR SUBMISSION OF PART-II (PRICE)**

***Please refer tender document***

## DEFERRED TERMS

TENDER FORM  
प्लाज्मा अनुसंधान संस्थान  
(भारत सरकार के परमाणु ऊर्जा विभाग का सहायता प्राप्त संस्थान)  
इंदीरा ब्रिज के पास, भाट, गांधीनगर - 382428, भारत  
दूरभाष: 079-23962020/23962021, फ़ैक्स: 079-23962277

Following terms are **replaced** in our Form for Tender No. **IPR/TN/PUR/TPT/ET/21-22/012** dated **31-08-2021**.

- 1) Sr.No.3 (Sub-clause No. 3.1) of Section-A under heading **“Earnest Money Deposit (EMD)”** of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

**Earnest Money Deposit (EMD) is not applicable as per Office Memorandum No. F.9/4/2020-PPD dated 12/11/2020 issued** by Ministry of Finance, Department of Expenditure, Procurement Policy Division, Government of India. In place of submission of EMD, vendor may upload a signed **“Bid Security Declaration”** as per the attached **Annexure-V** accepting that if they withdraw or modify their bids during the period of validity etc., they will be suspended for future requirements of IPR.

- 2) Sr. No. 15.3 (Section-A) under heading **“TENDERING CONDITIONS FOR BIDS”** of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:  
Quotation/ offer should be on FOR, IPR Gandhinagar basis only. Quotation/offer received in any other terms/ conditions shall not be considered.
- 3) Sr. No. 15.6 (Section-A) under heading **“TENDERING CONDITIONS FOR BIDS”** of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is deleted
- 4) Sr.No.18 (Section-A) under heading **“Statutory Levies such as Customs Duty, Goods and Service Tax”** of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

**Clause Nos.18.1, 18.2, 18.3, 18.5.2 and its sub-clauses deleted from Form No: IPR-LP-ET-02.V5.**

- 5) Sr. No. 46 (Section-A) under heading **“Price/Purchase Preference”** of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:  
**Purchase/Price preference:** Purchase/Price preference benefits under MSME/NSIC including benefits under PPP-Make India policy will be provided to the industries as per the policies of the Government of India in force at the time of evaluation of the offers provided their offer is in compliance with the terms and conditions of the tender.

## DEFERRED TERMS

- 6) Sr. No. 4.1 (Section-B) under heading **“Security Deposit”** of “General Conditions of Contract of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

On acceptance of tender, the Contractor shall at the option of the Purchaser and within the period specified by him, submit a Bank Guarantee from State Bank of India or any Indian Nationalized/ Scheduled Banks as appearing in the second schedule of Reserve Bank of India (other than co-operative and Grameen Banks) on a non-judicial stamp paper of appropriate value towards Security Deposit not exceeding **3% (three percent)** of the tendered value of the contract/purchase order valid till at least 2 months beyond the acceptance date of the material, as the Purchaser shall specify. Bank Guarantees submitted other than from banks approved by IPR will not be accepted.

- 7) (a) Sr. No. 15.1 (Section-B) under heading **“Performance Bank Guarantee”** of “General Conditions of Contract of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

In the event of acceptance of the tender, the Contractor will be required to submit a performance bank guarantee for **3% of the total value of the stores inclusive of all statutory levies and other charges** admitted in the contract, from State Bank of India or any Indian Nationalized/ Scheduled Banks as appearing in the second schedule of Reserve Bank of India (other than co-operative and Grameen Banks), on a non-judicial stamp paper of appropriate value valid till 2 months beyond the expiry date of warranty period i.e., 3 years from the date of acceptance as per the Purchaser’s format towards satisfactory performance of the Stores during the warranty period. Bank Guarantees submitted other than from banks approved by IPR will not be accepted.

- 8) Sr. No. 22.1 (Section-B) under heading **Liquidated Damages** of “General Conditions of Contract” of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

**Liquidated Damages:** As per Standard Terms & conditions, the Purchaser reserves the right to levy the Liquidated Damages, for delay in supply beyond the contractual delivery and acceptance date at site at the rate of half percent (0.5 percent) of the total Contract price (Basic price) for each calendar week of delay. **GST @ 18% will be applicable on LD charges.** The total liquidated damages shall not exceed five percent (5%) of the contract price (Basic price). Stores/Goods will be deemed to have been **delivered** only when all its component parts are also delivered. If certain components are not delivered in time, the Stores/Goods will be considered as delayed until such time as the missing parts are delivered.

## DEFERRED TERMS

- 9) Sr. No. 34.2 (Section-B) under heading “Warranty of “General Conditions of Contract” of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

### Warranty:

- (a) **Containerized Data Center at IPR: Three years** from the date of final acceptance of the Containerized Data Center at IPR site against all sorts of manufacturing defects, faulty material and poor workmanship.
- (b) The SI shall warranty that spare parts for the system would be available for a minimum period of **Ten (10) years** after acceptance of the system/equipment. And therefore, before going out of production of the spare parts, you should provide the End-of-life certificate from the manufacturer. For more details, please refer tender document.
- 10) Sr. No. 35 (Section-B) under heading Mode of Payment of “General Conditions of Contract” of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:
- Payment:** Unless otherwise agreed to in writing between the Purchaser and the Contractor, payment for the delivery of the tendered items, will be made as follows.
- a) 80% of basic price of Item Sr.No.3, 4, 5 (5.1, 5.2 & 5.3), 6 (6.1, 6.2 & 6.3) and 7 to 12 of Price-Bid + 100% of all other charges will be paid after receipt of entire Containerized Data Center (CDC) at IPR site, its verification by IPR representative and on receipt of invoice in triplicate.
- b) Balance 20% of basic price of Item Sr.No.3, 4, 5 (5.1, 5.2 & 5.3), 6 (6.1, 6.2 & 6.3) and 7 to 12 of Price-Bid and 100% of Item Sr. No.1, 2 & 13 of Price-Bid will be paid within 30 days from the date of final acceptance of the entire Containerized Data Center (CDC) at IPR site, on receipt of Performance Bank Guarantee for 3% of the order value inclusive of all statutory levies and other charges from State Bank of India or any Indian Nationalized/Scheduled Banks as appearing in the second schedule of Reserve Bank of India (other than co-operative and Grameen Banks), on a non-judicial stamp paper of appropriate value valid throughout the warranty period i.e., 3 years from the date of acceptance (**Plus additional 2 months grace period**) and on receipt of final invoice.

Following **ADDITIONAL CLAUSES** are **added to** our Form No. IPR-LP-ET 02.V5 for Tender No. **IPR/TN/PUR/TPT/ET/21-22/012** dated **31-08-2021..**

### **1. MAKE IN INDIA**

## **DEFERRED TERMS**

- i. As defined under the Public Procurement (Preference to Make in India), order 2017, Revised order dated: 16/09/2020 or as being revised from time to time, in procurement of goods or services in respect of which the Nodal Ministry/Department has communicated, that there is sufficient local capacity and local competition, only “Class-I local supplier”, as defined under the said order, shall be eligible to bid irrespective of purchase value.
- ii. Only “Class-I local supplier” and “Class-II local supplier”, as defined under the above said order, shall be eligible to bid in procurements under taken by this Institute, except where the mode of procurement is by issue of Global Tender Enquiry. The bidding supplier shall indicate the percentage of local content for the item being offered in their bid.
- iii. Where the procurement is by issue of Global Tender enquiry, Non local suppliers, shall also be eligible to bid along with “Class-I local suppliers and Class-II local suppliers”. Suppliers/bidders offering imported products will fall under the category of Non-local suppliers.
- iv. Subject to the provisions of the above said order, and to any specific instructions issued by the Nodal Ministry or in pursuance of the said order, purchase preference shall be given to “Class-I local Suppliers” in procurements under taken by this Institute, in the manner specified there in the order.
- v. The bidders along with their bid/tender shall be required to provide a self-declaration certificate of the local content (where the procurement value is Rs.10 Crore or less) for the item offered and their status as Class-I/Class-II/Non-Local supplier and their eligibility to participate in the tender. In cases of procurement for a value in excess of Rs.10 crores, the “Class-I local supplier”/“Class-II local supplier” shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of Contractors other than companies) giving the percentage of local content.
- vi. Self-declaration certificate should quantify the percentage of local content of the offered product only. It should also indicate the location. However, claiming the services such as transportation, insurance, installation & commissioning, training and after sale service support like AMC/CMC etc., shall not be considered as local content as per OM N.P-45021/102/2019-BE-II-Part(1)(E- 50310) dated:4/03/2021 issued by Ministry of Commerce and Industry, DPIIT.
- vii. False declarations/violation of this order terms shall be deemed to be breach of code of integrity resulting in debarment of the firm for a period up to 2 years. Under such circumstances, the supplier shall not be considered for any preferences as proposed in the order.

## **DEFERRED TERMS**

- viii. Wherever the bids are received without accompanying the above said requisite certificate such offers shall be treated as incomplete and not considered.
- ix. Bidders/contractor are divided into three categories based on Local Content (The total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent):
1. Class-I local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/ NIT, if prescribed, for the item being procured or 50% whichever is higher.
  2. Class-II Local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/NIT, if prescribed, for the item being procured or 20% whichever is higher, but less than that applicable for class-I local supplier.
  3. Non-local supplier is with local content less than that applicable to class-II local supplier, as stated above.

*Note: Where the estimated value of the procurement is less than Rs.5 Lakhs (or as being amended by the competent authority from time to time) is exempted from the provisions of the above Make in India policy as stated therein the order.*

Self-certification under preference to “Make in India” order as per **Annexure-I** should be uploaded on e-tender portal along with other documents.

### **2. ELIGIBILITY OF BIDDERS FROM SPECIFIED COUNTRIES:**

- i. Orders issued by the Government of India restricting procurement from bidders of certain countries which shares a land border with India shall apply to this procurement.
- ii. Any bidder from a country which shares a land border with India ( <https://mea.gov.in/india-and-neighnours.htm> ), excluding countries as listed in the website of Ministry of External Affairs ( <https://meadashbaord.gov.in/indicators/92> ), to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects – hereinafter called “Restricted countries”) shall be eligible to bid in this tender only if the bidder is registered ( <https://dipp.gov.in/sites/default/files/Revised-Application-Format-for-Registration-of-Bidders-15Oct2020.pdf> ) with the Registration committee constituted by the Department for promotion of Industry and Internal Trade(DPIIT) . The bidders shall enclose valid registration certificate along with their offer. Wherever the bids are received without accompanying the above



## **DEFERRED TERMS**

said requisite certificate such offers shall be treated as incomplete and not considered.

Self-certification under **ELIGIBILITY DECLARATIONS FROM SPECIFIED COUNTRIES** order as per **Annexure-II** should be uploaded on e-tender portal along with other documents.

**3. UNDERTAKING:** Acceptance of tender condition as per **Annexure-III** should be uploaded on e-tender portal along with other documents.

### **4. CODE OF INTEGRITY**

No official of a procuring entity or bidder or contractor shall act in contravention of the codes which include

- (i) Prohibition of
  - (a) making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
  - (b) any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
  - (c) any collusion, bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.
  - (d) improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain.
  - (e) any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract; which can affect the decision of the procuring entity directly or indirectly any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
  - (f) obstruction of any investigation or auditing of a procurement process.
  - (g) making false declaration or providing false information for participation in a tender process or to secure a contract;
- (ii) Disclosure of conflict of interest.
- (iii) Disclosure by the bidder of any previous transgressions

## **DEFERRED TERMS**

made in respect of the provisions of sub-clause (i) with any entity in any country during the last three years or of being debarred by any other procuring entity.

- (iv) Institute for Plasma Research, after giving a reasonable opportunity of being heard, comes to the conclusion that a bidder or prospective bidder, as the case may be, has contravened the code of integrity, may take appropriate measures as deemed fit, including rejecting his bid and forfeiting EMD and/or debarring him from participating in future bidding.

**5. Commercial Bid (Unpriced)** : Vendor/ Bidder should upload the duly filled (signed and stamped) copy of commercial bid( unpriced) as per [Annexure-IV](#)

**6. TDS as per CGST Act:** As per the provisions mentioned under Section No. 51 of the CGST Act 2017, TDS @ 2% (IGST 2% or CGST 1% and SGST 1%) will be deducted while making payment to the suppliers where total value of the purchase order/contracts/work orders exceeds Rs.2.5 Lakhs. Necessary TDS Certificate will be issued to the supplier after TDS deduction.

### **IMPORTANT NOTE:**

**[1] QUOTATIONS ARE INVITED IN INDIAN CURRENCY ONLY.**

**[2] QUOTATIONS RECEIVED OTHER THAN “INR” QUOTE SHALL SUMMARILY BE REJECTED.**

(To be printed in letter head)

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**ANNEXURE-I**

**Self-Certification under preference to Make in India order Certificate**

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments, we hereby certify that we M/s. \_\_\_\_\_ are local supplier meeting the requirement of minimum local content i.e., \_\_\_\_\_% excluding transportation, insurance, installation, commissioning, testing, training and after sales service support like AMC/CMC etc. as defined in above orders for the material against IPR Enquiry/Tender No **IPR/TN/PUR/TPT/ET/21-22/012** dated **31-08-2021**. Details of location at which local value addition will be made as follows: \_\_\_\_\_.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You,

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**Signature with date:**

**Name:**

**Designation:**

**Official Seal**

## ANNEXURE-II

### Annexure to Bid Form: Eligibility Declaration

(To be submitted as part of tender/Technical Bid)  
(On company letter head)  
(Along with supporting documents, if any)

Tender No: **IPR/TN/PUR/TPT/ET/21-22/012** dated **31-08-2021**

Tender Title: **Supply, installation, testing, commissioning and site acceptance of the Containerized Data Center at IPR (Turnkey Project) as per the detailed specifications mentioned in the tender document.**

Bidder's Name: \_\_\_\_\_  
(Address and contact details)

Bidder's Offer No. \_\_\_\_\_ Date: \_\_\_\_\_

**Restrictions on procurement from Bidders from a country or countries, or class of countries under Rule 144(xi) of the General Financial Rules 2017.**

"We have read the clause regarding restrictions on procurement from Bidder of a country which shares a land border with India; and solemnly certify that we are not from such a country or, if from such country, we are registered with the Competent Authority (copy enclosed). We hereby certify that we fulfill all requirements in this regard and are eligible to be considered."

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any further changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

\_\_\_\_\_  
(Signature with date)

\_\_\_\_\_  
(Name and designation)  
Duly authorized to sign Bid for and on behalf of

\_\_\_\_\_  
(Name & address of the Bidder and Seal of Company)

## **(This need to be printed in Tenderer's letter head)**

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### **Annexure-III**

### **Undertaking**

To,

The Purchase Officer  
Institute for Plasma Research  
Near Indira Bridge  
Bhat  
Gandhinagar-382428 (INDIA),

**Ref: Tender Notice No. IPR/TN/PUR/TPT/ET/21-22/012 dated 31-08-2021**

Dear Sir,

I / We have gone through the tendering conditions pertaining to the Two Part Tender and General Conditions of Contracts and Special Conditions of Contracts contained in Section "B" of Form No: IPR-LP-ET-02.V5. I/We hereby agree to supply the stores conforming to the tender specifications and also agree to abide by your General Conditions of all Contracts and Special Conditions of Contract contained in Section "B" of the Tender document.

- You will be at liberty to accept any one or more of the items of stores offered by us and I/We shall be bound to supply you the stores as may be specified in the Purchase Order/Contract.
- I/We hereby agree to keep the price valid for your acceptance for a period of 120 days from the date of opening of the tender.
- Deviations to technical specifications of the tender documents are detailed in Annexure-A of the tender form while deviations proposed to the General/Special Conditions of Contract are detailed in Annexure "B" to this tender.
- Standard equipments / accessories included in the bids shall be procured from OEM or their authorised agents. Any of the offered standard bought out equipment is not refurbished.
- I/We have also uploaded all the leaflets / catalogue, etc. pertaining to the stores offered.

Yours faithfully

Stamp and Signature of the Tenderer

**Institute for Plasma Research**  
(An Aided Institute of Dept. of Atomic Energy)  
Bhat, Gandhinagar

**Annexure - IV**

<b>IPR Enquiry/ Tender No. &amp; Date</b>	IPR/TN/PUR/TPT/ET/21-22/012 dated 31-08-2021
<b>COMMERCIAL TERMS &amp; CONDITIONS</b>	
<b>ITEM DESCRIPTION</b>	Supply, installation, testing, commissioning and site acceptance of the Containerized Data Center at IPR (Turnkey Project) as per the detailed specifications mentioned in the tender document.

SI. No.	PARTICULARS	REMARKS
I	Name of the Bidder	
II	Bidder Offer No & Date	
III	Postal address	
IV	Contact with STD code	
V	Fax with STD code	
VI	Name of Contact person	
VII	Mobile No.	
VIII	e-mail ID	
IX	Currency of offer/quotation	INR
<b>Commercial Terms for Quoted items (Please Provide Commercial terms and conditions in the below form)</b>		
1	Confirm the offered Price shall be firm and fixed through out the currency of contract, in the event of placement of purchase order.	
2	Price Term for Local Supplier	FOR IPR Gandhinagar
3	<p><b>Goods and Services Tax:</b></p> <p><b>Goods and Service Tax for Supply Items only:</b> IPR is entitled to avail GST Concessional Rate as per Ministry of Finance Notification No. 47/2017 Integrated Tax (Rate) dated 14/11/17 (for IGST) and (CGST @ 2.5% and SGST @ 2.5%) as per Notification No. 45/2017-Central Tax (Rate) dated 14/11/17 and Notification No. 45/2017-State Tax (Rate) dated 15/11/17</p> <p><b>Confirm that in the event of issuance of GST Concessional Certificate you shall charge GST on Supply Portion @5% only</b></p> <p><b>Goods and Service Tax for Service items: As applicable</b></p>	
4	<b>Delivery period:</b> Refer tender terms	
5	<b>Installation and commissioning charges :</b> Have you offered Installation & Commissioning Charges? (if applicable)	

6	<b>Liquidated Damages:-</b> Please confirm that the Liquidated Damages as per Sr. No. 22 of Section B of Form No IPR-LP-ET-02.V5 ( Terms and Conditions) attached with the tender/enquiry is acceptable to you	
7	Terms of Payment:- as per Sr. No. 35 of Section B of Form No. IPR-LP-ET-02.V5 (Terms and Conditions) attached with the tender/enquiry. (Also refer document named " <b>Deferred_terms_IPR-LP-ET-02.V5" for amended payment terms)</b>	
8	Guaranty / Warranty:-as per Sr. No. 34 of Section B of Form No. IPR-LP-ET-02.V5 (Terms and Conditions) attached with the tender/enquiry. ( <b>Also refer document named "Deferred_terms_IPR-LP-ET-02.V5" for amended warranty terms)</b> )	
9	<b>Validity of offer/quotation:-</b> Refer tender terms	
	<b>QUESTIONNAIRE TO BE FILLED BY BIDDER IN AND SENT ALONG WITH OFFER DULY SIGNED</b>	
10	In the event of a purchase order/contract vendor has to provide Security Deposit in the form of Bank Guarantee for 3% of contract/ order value from State Bank of India or any Indian Nationalized/ Scheduled Banks as appearing in the second schedule of Reserve Bank of India (other than co-operative and Grameen Banks) on a non-judicial stamp paper of appropriate value valid till at least 2 months beyond the final acceptance of the supplied goods at IPR, wherever applicable shall be submitted .	
11	In the event of a purchase order/contract Performance Bank Guarantee for 3% of the contract/order value from State Bank of India or any Indian Nationalized/ Scheduled Banks as appearing in the second schedule of Reserve Bank of India (other than co-operative and Grameen Banks) on a non-judicial stamp paper of appropriate value till 2 months beyond the expiry date of warranty period , wherever applicable shall be submitted.	
12	I/We hereby offer to supply the stores detailed in the schedule hereto at the price given in the said schedule and agree to hold this offer open till expiry of quotation. I/We shall be bound to supply the stores hereby offered upon issue of purchase order communicating the acceptance thereof on or before the expiry of the last mentioned date. You will be at liberty to accept any one or more of the items of stores tendered for or portion of any or more of the items of such stores and I/We notwithstanding that the offer in the tender has not been accepted in whole shall be bound to supply to you- such item or items and such portion or portions of one or more of the items as may be specified in the said Purchase Order communicating the acceptance.	
13	Whether All Documents Related to tender Viewed?	
14	Vendor should upload the complete technical details (Technical specifications with product data sheet	
15	<b>Free Issue Material:</b> Successful tenderer will have to arrange insurance showing beneficiary as "Institute for Plasma Research" at their risk and cost towards adequate security for the materials/property provided/issued by the Purchaser as Free Issue Material for the due execution of the contract, wherever applicable.	

*(To be printed in letter head)*

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**ANNEXURE-V**

**BID SECURITY DECLARATION**

**IN LIEU OF SUBMISSION OF EARNEST MONEY DEPOSIT (EMD)**

**Ref: (1) Our Offer No.....dated.....**  
**(2) Your Tender No. IPR/TN/PUR/TPT/ET/21-22/012 dated 31-08-2021**

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In the event of withdrawing or modifying our offer within the validity or extended validity period, we hereby accept the suspension of our company for a period of two years from the date publication of this tender for your future requirement.

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**Signature with date:**

**Name:**

**Designation:**

**Official Seal**



**SECTION 'C'**  
**TECHNICAL SPECIFICATIONS**  
**OF**  
**STORES AND DRAWINGS**

**Institute for Plasma Research  
(An Aided Institute of Dept. of Atomic Energy)  
Bhat, Gandhinagar**

**Eligibility Criteria (Annexure-A)**

ITEM DESCRIPTION	<b>Supply, installation, testing, commissioning and site acceptance of the Containerized Data Center at IPR (Turnkey Project) as per the detailed specifications mentioned in the tender document.</b>	
Sr. No.	Criteria	Documents required to submit / upload
1	<p>a) The bidder shall be a registered/ incorporated Indian Company.</p> <p>b) The bidder shall submit memorandum of association and/or registration certificates to this effect along with the bid.</p> <p>c) The Bidder should be registered &amp; incorporated in India under the Companies Act, 1956.</p> <p>d) The company should be operational in India for at least the last three years from the date of publication of tender.</p> <p>Note: Consortium of companies/ firms are not allowed to participate in the tender.</p>	Relevant Documents of proof and Undertaking signed by the Authorized Signatory
2	<p>The bidder should be an OEM or System Integrator (SI) having ISO 9001:2008 Certification OR Certified for Project Management &amp; System Integration.</p> <p>The validity of the certificate shall be continuing at the time of submission of the bid.</p>	Valid copy of the ISO Certificates.
3	<p>The bidder should have minimum one Certified Data Center Professionals (from certifying bodies EPI / Uptime) on payroll with the bidder.</p>	<p>Valid copy of the Certificate (CDCP/ CDCS / CDCE / CDCMP) &amp; HR undertaking.</p> <p>CDCP (Certified Data Center Professional)</p> <p>CDCS (Certified Data Center Specialist)</p> <p>CDCE (Certified Data Center Expert)</p> <p>CDCMP (Certified Data Center Management Professional)</p>
4	<p>The bidder must have an experience of design and successful implementation of modular Data Center work done in last 5 years from the date of publication of the tender.</p> <p>The project value of the completed project should be:</p> <p>a) Two similar completed works with minimum 5 racks installation and costing not less than ₹ 1.75 Cr. each OR</p> <p>b) One Similar completed work with minimum 8 racks installation and costing not less than ₹ 3.5 Cr.</p> <p>Note: Bidder's in-house data center shall not be considered.</p>	Copy of the Work Order(s) with Completion Certificate by end user / customer.

5	The bidder/OEM must have well-established and operational service facility at Ahmedabad/Gandhinagar operated for at least 1 year to ensure satisfactory after sales service support OR If bidder doesn't have the service & support facility in Ahmedabad / Gandhinagar then one qualified (IT Graduate with minimum 2 years of experience in Data Center management) resident engineers at IPR for fulltime, free of cost should be provided during the warranty period.	Relevant Documents of proof or Undertaking signed by the Authorized Signatory.
6	Bidder should have an average annual turnover of ₹ 9 Crores for the last three financial years (FY 2019-20, 2018-19 & 2017-18).	Audited Statement of Accounts OR CA Certificate
	<b>Note:</b>	
A	The response to tender without submission of proof of above points will summarily be rejected without further communication	
b	The bidder shall not be under a declaration of ineligibility for corrupt or fraudulent practices or blacklisted with any of the Government agencies	
c	Original documents shall be produced for verifications, if required	

INSTITUTE FOR PLASMA RESEARCH  
(An Aided Institute of Department of Atomic Energy, Government of India)  
Near Indira Bridge, Bhat. Gandhinagar-382428

## Supply, Installation, Testing & Commissioning of the Containerized Data Center at IPR

Description	Remarks
General Description & Objective	Turnkey Project Description
Annexure – A.1	Technical Scope of the Work
Annexure – B	Technical Compliance Sheet
Annexure – C	Format for Warranty Certificate for SI (System Integrator): To be submitted over and above the Standard Warranty Certificate(s).
Annexure – D	Acceptance Criteria

## General Description:

**Institute for Plasma Research (IPR)** proposes to set up a Containerized Data Center (CDC), henceforth will be mentioned as CDC, facility to support the critical IT services of its users and of research groups in the institute. Existing allocated location with an area of approx. 115 sq. meters needs to be set up to house the CDC. The entire infrastructure for this CDC needs to be implemented as a **turnkey solution by the System Integrator (SI)**, selected for this purpose. The scope of the work involved in the setup of the data center includes supply, installation, testing & commissioning of uninterrupted power supply systems for IT loads; power supply to cooling and lighting loads; associated electrical cabling and power conditioning equipment; complete cooling solutions including chiller / outdoor units to ensure proper temperature and humidity for IT equipment; fire warning and suppression systems; access control systems; installation of partitions; flooring, base, canopy, and required any civil and mechanical works.

All works shall be designed and executed to conform to the layout of placement of racks as per IPR requirement. Detailed diagrams (footprints, weight, etc.) are to be provided for the placement of CDC. Individual racks must be equipped with a remote monitoring system capable of monitoring, control and documentation of important physical parameters within the CDC. Placement and routing of all equipment, pipes, cables and other items, including items to be placed outside the data center, shall be done in consultation and with the approval of IPR. Site constraints including dimensions, location and nature of existing construction, and all safety criteria are to be taken account of by the System Integrator. Any excavation, trenching, drilling, clearing of vegetation or other works required for this purpose are the responsibility of the System Integrator. All works needed to ensure safety and aesthetics at the site at the end of the installation, including ground levelling, painting of supports, covering of trenches, etc. are the responsibility of the System Integrator.

The proposed CDC project is planned to provide the following:

- ✓ Usability for IT and Technical operations
- ✓ Security: Mechanical, Electrical, Cooling
- ✓ High quality, robust structure
- ✓ Reduced time to acquire and deploy

After the successful delivery of the CDC, the System Integrator has to provide a combination of local and remote support, so as to achieve 24x7x365 high-availability for running this CDC, along-with IPR.

The System Integrator is also required to provide a complete single manual to run all the CDC equipment and processes at a satisfactory level. The System Integrator shall provide training in operation of all systems in the facility to all designated staff of IPR.

## Objectives:

The entire Containerized Data Center (CDC) project has to be implemented as a turnkey solution, so as to deliver all the objectives. Following are the major components of the planned Containerized Data Center:

- 1) Container Structure & Design
- 2) Civil Work
- 3) Electrical / Power Distribution Work
- 4) UPS for IT Load
- 5) UPS for Non-IT Load
- 6) HVAC / Cooling System
- 7) IT Racks (Network / Server) with PDUs
- 8) Water Leak Detection (WLD) System
- 9) Rodent Repellent System
- 10) Fire Detection and Suppression System
- 11) CCTV System
- 12) Access Control System
- 13) Data Center Infrastructure Management(DCIM)/Building Management Software (BMS)

The entire CDC project has to be implemented as a turnkey solution so as to deliver the objectives. This Containerized Data Center is to be placed at approved location area in the IPR campus. This CDC has to be planned for 8 Racks, where each rack should have power utilization capacity of minimum 12kW and this CDC should be planned for the total capacity of 8 racks with the IT Load of 100 KW and appropriate cooling technology.

Since the entire Containerized Data Center has to be implemented as a turnkey solution it will include civil, electrical and mechanical works. This includes cooling systems, racks, fire warning and suppression systems, LED lighting, etc. Protection goals and objectives for Data Centers should include life safety, property protection, and business continuity. Life safety is mandated by codes and standards and includes providing safe exits and adequate warning of fire or other hazardous conditions within the Containerized Data Center. The scope of the work involved in the setup of the modular Data Center includes supply, installation, testing & commissioning of all the above mentioned major data center components.

General and Broad scope of work is provided in the **“Annexure –A.1”**.

Detailed Technical Specifications are provided in the **“Annexure –B”**.

Additional Warranty Certificate to be signed is provided in the **“Annexure –C”**.

Acceptance Criteria is provided in the **“Annexure –D”**.

# Annexure – A.1

Technical Scope of Work is provided in this Annexure.

# 1. General Scope:

## 1.1. GENERAL SCOPE & RESPONSIBILITIES

- 1.1.1. The submitted proposal should include firm and committed “all-inclusive” costs that remain valid until such time as the project has been completed. By responding to this contract, System Integrator (SI) is declaring their past experience, qualifications, ability and agreement to provide all products, materials, repair and/or replacement parts or components, technical support, and/or services necessary to fulfil the requirements to the satisfaction of IPR.
- 1.1.2. Hardware, software, tools, insurance, delivery, personnel, technical knowledge (or ANY other pertinent needs) necessary to facilitate any requested demonstrations. The COST associated with providing any requested demonstrations shall be borne in FULL by the SI. IPR shall NOT be responsible for any costs incurred resulting from any requested demonstrations.
- 1.1.3. IPR is seeking the services of a qualified and knowledgeable SI to provide a Project Manager (PM) to function as a single-point-of-contact between the IPR and any other vendors who will be engaged during SITC. Under the direction of the SI, the PM must work with IPR to communicate all the progress as well as co-ordinate drawing approvals, status of supply, provide documentations, help during the on-site testing /acceptance (as applicable) and coordinate the implementation of this Containerized Data Center.

## 1.2. Project Manager Responsibility

- 1.2.1. It is important to the IPR that the PM functions as a knowledgeable intermediary between the SI, regarding Containerized Data Center build - related activities and concerns.
- 1.2.2. The PM will maintain a historical record of all matters, requests, responses, concerns, decisions and resolutions applicable to the move. A copy of this record will be made available to the IPR upon request or upon completion of the project.
- 1.2.3. The PM will provide necessary assistance during implementation of Containerized Data Center implementation.
- 1.2.4. The PM will make themselves available, either by phone, fax, email, or in person (in the manner requested and upon request of the IPR) in a timely manner to provide leadership and guidance during the planning and preparation for the move.
- 1.2.5. The PM will be onsite all the time during the installation period and available for the purpose of overseeing the move and working with the IPR in coordinating all move-related activities.
- 1.2.6. The PM will correct any noted problems with processes or personnel in a timely manner.
- 1.2.7. The PM will make himself available for necessary meetings and discussions applicable to move planning and preparation. This availability is to be either in person, by phone, or email based on the needs of the IPR.
- 1.2.8. The PM will be responsible for functioning as a ‘single point of contact’ while coordinating the flow of work between the moving company and staff, onsite



technicians, equipment installers, electricians, facilities staff, etc. The PM will report directly to IPR Officer In-Charge.

1.2.9. The PM will oversee the setting up and maintaining of a sign-in/sign-out location and register and require all persons participating in the installation (to include, but not limited to move company personnel, contracted computer technicians, electricians, IT personnel, other support staff, etc.) to sign a log upon arrival indicating their name, company, and arrival time. Following their arrival and sign-in, they are to physically remain on-site until such time as dismissed by the PM, at which time each individual is to sign out. A copy of this log will be provided to the IPR upon completion of the move, or upon request. PM will insure IPR security practice and polices will be followed

1.2.10. The PM should have at least three years actual experience in planning, managing, overseeing, and implementing Data Center Build Projects.

### **1.3. SPARE PARTS**

SI should include in their scope for tools and initial stock of maintenance spares as are essential for proper operation and maintenance of the equipment. Full particulars of spares parts should be provided separately.

The SI shall warranty that spare parts for the system would be available for a minimum period of TEN (10) years after acceptance of the system / equipment .And therefore before going out of production of the spare parts, they will provide the End-of-life certificate from the manufacturer.

### **1.4. INSTALLTION, ERECTION, COMMISSION & ACCEPTANCE AT SITE**

The SI shall be responsible for erection & installation of the equipment at site and for making it fully operational.

In the connection pre-installation requirement will be mentioned in the tender. The SI must provide complete details regarding space and all infrastructure needs of the equipment, which IPR should approve before the arrival of equipment in IPR, to ensure its early installation (The SI may offer their advice and assistance to IPR's Scope of work).

### **1.5. ESCALATION MATRIX**

The SI have to submit the detailed Escalation Matrix. As this Containerized Data Center facility will be running for 24x7, SI should support the system round the clock. Hence, the name mentioned in the escalation matrix should have the office as well as home / mobile number mentioned in the escalation matrix. Any changes in escalation matrix during the warranty / AMC period support by the SI, should be communicated immediately to the Officer In-Charge, IPR.

### **1.6. TECHNOLOGY CERTIFICATE**

The SI should issue a certificate stating that

1.6.1. The equipment is of latest technology and is not declared end-of-life.

1.6.2. The equipment may be upgraded as and when required by IPR and

1.6.3. They will promptly and properly service the equipment whenever desired by IPR during any issue(s) incurred in warranty /AMC period.

### **1.7. IPR SCOPE**

Details of IPR scope are as below:

1.7.1. IPR will provide industry standard main electrical cable of required capacity with DG (Diesel Generator) backup till the location of the planned Containerized Data Center location. However, required connections, installation etc. works inside the CDC electrical panel will be in the SI scope.

1.7.2. Diesel Generator including fuel tanks

#### **1.7.3. Data Cabling:**

1.7.3.1. Any fibre optics installation / laying till CDC

1.7.3.2. Networking / Structural cabling inside the CDC

### **1.8. PDI (Pre-Dispatch Inspection)**

1.8.1. Considering the 100% acceptance at IPR site, the PDI is only to check the container specifications.

1.8.2. After the design drawing approval(s), IPR officials will visit the factory when the container is made ready.

1.8.3. SI /OEM has to be make a compliance sheet as per the contract. For any non-compliance and or any design change is required the PDI will be re-schedules after the resolution of the issue(s).

1.8.4. Compliance sheet of the container will be signed by both the parties.

1.8.5. The cost of the PDI visit will be borne by the IPR.

## **2.Component-wise Scope of Work**

### **2.1. Container Structure & Design:**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Container Structure & Design.

The mentioned works should be carried out with best quality complying the Data Center standard & practices.

### **2.2. On-Site Civil Work:**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Civil Works.

The works should be carried out with best quality complying the respective IS codes and standard civil work practices.

### **2.3. Electrical & Power Distribution Work:**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Electrical & Power Distribution Works.

The works should be carried of the best quality complying the industry standards and best electrical work practices.

### **2.4. UPS System (for IT Load)**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the IT-Load UPS System.

The installation work should be carried of the best quality complying the industry standards and best electrical work practices.

### **2.5. UPS System (for Non-IT Load)**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Non-IT Load UPS System.

The installation work should be carried of the best quality complying the industry standards and best electrical work practices.

### **2.6. IT Racks (Network / Server) with PDUs and Cooling System**

The scope includes complete installation of racks and related accessories for all 08 IT Racks; complete cooling solution for these racks in N+1 racks including outdoor units, required Piping and other associated work and electrical cabling from bus bar to rack PDU; and other associated mechanical works. Eight numbers of 42U racks with rear double door, & automatic door opening system in case of any threat like fire, high temperature, humidity etc. each with a heat dissipation of 12 kW are envisaged. Approval of IPR for any other deviations, if any, is required. Detailed diagrams are to be provided for the placement of outdoor equipment such as outdoor units. Individual racks must be equipped with a remote monitoring system capable of monitoring, control and documentation of important physical parameters within each rack.

#### **2.6.1. Working Space in front and backside of the IT Racks**

- 2.6.1.1. Minimum space available for working in front side of the racks should be 900mm. and required railing kit etc. for the racks may be used for this purpose.
- 2.6.1.2. Minimum space available for working in back side of the racks should be 600mm. and required railing kit etc. for the racks may be used for this purpose.
- 2.6.1.3. If any railing kit / rack slider is provided, it should be with the load bearing capacity of the fully populated rack.

## 2.6.2. Cooling System

- 2.6.2.1. The cooling system should be designed to comply with Tier III requirements of Uptime Institute.
- 2.6.2.2. Based on the IT load, the cooling load should be evaluated and implemented in N+1 mode.
- 2.6.2.3. The outdoor units should be kept on top of the Container.
- 2.6.2.4. Out of 08 IT Racks (06 Server Racks and 02 Network Racks), Six Server Racks installation should have minimum 12kW cooling capacity per rack, and Two Network Racks with minimum 7kW cooling capacity.
- 2.6.2.5. The proposed complete cooling system should cater to the IT Load cooling requirement in N+1 mode.
- 2.6.2.6. All IT Racks should be installed with automatic door opening system for any cooling issue(s).E.g., if installed N+1 cooling fails and temperature in the racks rises the doors should be automatically opened to avoid any damage to the installed IT hardware in the racks.
- 2.6.2.7. Apart from IT Racks cooling solution, required cooling for the UPS systems & Batteries and seating area should also be provided.
- 2.6.2.8. Thorough survey of site location (extreme temperatures, average temperature etc.) conditions should be checked before proposing the cooling solution.

Minimum 4 sensors should be installed in each IT rack so that the overall status of the heat / cooling load is measured.

## 2.7. Water Leak Detection (WLD) System

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the WLD.

The SI will be completely responsible for the implementation of Water Leak Detection System in all the Data Center area. Standard Data Center guidelines should be followed during the implementation of this system.

Required alerts/ alarms (hooter/email/SMS) generations should be implemented for this system with incorporation in DCIM/BMS.

## 2.8. Rodent Repellent System

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Rodent Repellent System.

The SI will be completely responsible for the implementation of Rodent Repellent System using Electronic transmitters of high frequency sound waves, which will emit sound at very

high decibel levels painful to pests. Standard Data Center guidelines should be followed during the implementation of the same.

Appropriate alerts/alarms (hooter/email/SMS) generations should be implemented for this system.

## **2.9. Fire Detection and Suppression System**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the Fire Detection and Suppression System.

The fire detection & suppression system is required to detect the incidence of smoke or fire within the Container covering all area. All essential components / hardware should be stored inside this CDC. Standard Data Center fire & safety guidelines should be followed during the implementation of this system.

Appropriate alerts/ alarms (hooter/email/SMS) generations should be implemented for this system with incorporation in DCIM/BMS software.

## **2.10. CCTV System**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the CCTV System.

The CCTV system is required to monitor the Facility on continuous basis for the movement of people within and around the Facility. The primary purpose of the system is to sense the abnormal movement / behaviour of the people so that the security and the concerned IT operation staff can be alerted in case of abnormal behaviour.

2.10.1. Container all inside area as well as outside four corners area should be covered in this CCTV coverage.

2.10.2. NVR supplied with this system should be with minimum RAID-1 configuration for the safety of backup.

2.10.3. Appropriate alerts/ alarms (hooter/email/SMS) generations should be implemented for this system with incorporation in DCIM/BMS.

## **2.11. Access Control System**

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the CCTV System.

An access control system to regulate entry into the CDC and shall be installed by the SI. The system shall consist of a biometric system based on fingerprint recognition, and in addition a Mifare compliant system based on RFID. The system shall provide for authorized entry and exit at two points.

2.11.1. Minimum 15 Access Cards should be supplied with this system for various user's addition.

2.11.2. Appropriate alerts/ alarms (hooter/email/SMS) generations should be implemented for this system with incorporation in DCIM/BMS.

## 2.12. Data Center Infrastructure Management (DCIM) / Building Management Software

The scope of work is as per the details mentioned in the Annexure–B (Technical Specifications) for the DCIM/BMS Software.

The overall design of the DCIM should be suitable for integrating all the systems installed in the container for monitoring and management especially all IT Racks, Cooling Systems, Fire detection-suppression, Access Control, Cooling Units, Water Leak Detection, Rodent, Electrical Panels, UPS with battery and CCTV System.

3. **Delivery including installation, testing and commissioning:** Within 5 Months from the date of Purchase Order.

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [01] SPECIFICATIONS FOR CONTAINER STRUCTURE & DESIGN

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
General Requirement	1	The ISO shipping container is a standard 40', durable closed steel box constructed for heavy loads that can be easily handled and moved.		
	2	Module should be with Water and Dust Proof - IP55 rated		
	3	Fire rating -90Min(Walls/Roof) & Panel thickness -100mm		
	4	Minimum Service Life -15 Years		
	5	Minimum Dimensions - 12.192 x 2.438 x 2.896 Meter		
	6	Painting colour & logo as per IPR's choice		
	7	The module shall be equipped with 1 external door. The Steel door is constructed with a dimensions of 2200 mm x 1100 mm. Doors should include 4 hinges, door seals and door holders. Each door should open to 270 degrees.		
	8	Raised Floor - No		
	9	Structural Strength of container should be min 20 Ton		
	10	Lifting facility - Top/Bottom		
Thermal Conductivity	11	To conform to IS 9490/ BS 874		
Structural Features & Wall Design	12	The Container should be made of an external ISO 40' High Cube container with Rockwool Insulation inside. It should combines the strength, resistance and protection of the ISO container with the special features to provide the right Data Center environment		
	13	All round Thick Rockwool insulation of min 48 kg/m3 panel, acoustically and thermally rated infill lining (approx. 100mm thick) and fully welded structure suitable for installation in the Zone 3 earthquake zone .		
	14	Insulation should be installed on the walls and ceiling and will be composed by a Rockwool materials with fire resistance and thermal insulating to resist high temperatures and provide a watertight enclosure. The sandwich will be covered by one layer of galvanized steel sheet (1.2 mm), joined by continuous weld panel to panel.		
	15	Apertures as required for Supply, Load and AC Pipework fully waterproofed.		
	16	External Surface-Weather resistant steel with paint(Suitable for external climatic conditions) finish & bottom of the container should be painted black using a bitumen based paint system.		
	17	Single leaf Door -Electronic access vandal resistant steel door with fire rated, tested & supplied with unique number.		
	18	Internal Flooring -3mm thick Aluminium chequered Plate + 3mm GI Plain Sheet with 1- 1/8" (28.6 mm) thick marine plywood flooring on the interior as a space for mounting equipments.		
	19	Single Leaf Door - 2200 x 1100 mm		

Lighting	20	Lighting level (in Lx) for datacenter facilities at 1 m from floor - 300		
	21	Emergency lighting (in hours) nominal performance - 60Min		
	22	Escape routes signs included		
Safety and Compliance Labels	23	Hindi & English-language safety and compliance labels are affixed to the DC is delivered.		
	24	Equipment Labelling-English		
	25	The safety and compliance labels are situated both on the exterior and interior of the DC.		
	26	First Aid label on the main access door-external. Danger keep out safety label. Electrical Hazard label Dead working Low Voltage. Manufacture's identification labels. Earthing Labels.		
Power Outlets	27	Minimum 4 numbers at low level		
Rack Guides / Movement	28	Racks shall be mounted on standard heavy duty Telescopic linear bearing Guides / railings for easier access to the front and rear of the rack and mounted equipment. OR The provision of the IT racks movement with min 300mm should be given.		
	29	Live IT Load of minimum 800kg should be considered for the movement.		
Wiring Distribution & cable Trays	30	The solution should includes all the industry standard cable management accessories (power and data cable) with proper laying as they enter the equipment rack.		
	31	Wire mesh cable tray should be provided in the appropriate location to carry cable within the module.		
	32	The mesh cable trays shall be glavanized & also comply with security measures in electrical installations, which guarantee no electrical discharge, fire risk or any danger associated of the system		
	33	Any cables to be secure and fixed should be within fire rated conduit in accordance with the local regulations.		
Paint Finish	34	Exterior Treatment shall be provided in order to prevent corrosion due to grease and moisture with epoxy/acrylic - Min 240 Microns		
	35	Internal Finish -Min 150 Microns - fire rated.		
	36	Painting sytem atmospheric corrositivity - C3-M		
Cable/ Pipe Entry into Container	37	Industry standard cable glands needs to be installed at all cabling and piping interface points that enter or exit the module.		
	38	Provision of cable/piping entry and designed to seal cables and pipes to protect from multiple hazards including water ingress, gas, dust, vibrations, electro-magnetic disturbances & vermin.		
	39	Cable glands should provide thermal, fire, and water protection for the module. The cable gland should be easily configurable to adapt to the number and dimensions of cables and pipes that enter the module since it uses a compression unit inside of frame.		



Grounding	40	TNS-5W		
	41	The module should includes an integrated grounding system		
Air Renovation System (ARS)	42	The Air Renovation System (ARS) ventilation should be designed to meet air renovation requirements to comply with local regulations in containerized Data Centers where IT equipment and UPS batteries are installed.		
Cold/Hot Containment	43	Conatnment areas hot /cold should be seperated		
	44	Internal Partion sliding door between IT & Power (Support Equipment Area).		
Ladder	45	One ladder must be provided the access onto the roof of the container DC for service of outdoor units.		
Misc	46	One person Seating should be planned in this Contianerized Data Center.		
	47	The arrangement should include the required computer table and the chair. The supplied furniture should have a provision of drawer(s) to keep the manulas / docuemment.		
	48	Wall mouted Touch Screen / PC Display should be provided in this area.		
Transport	49	It is vendor responsibility to ensure that all aspects of transportation (by road and by sea) are taken into account when transporting CDC, including obtaining permits and customs declarations etc.		
	50	The CDC should be packed and prepared for transport at the manufacturer place. All options and accessories, including air intake canopies and Batteries, are secured for shipping inside the DC container or to be delivered in a separate packaging with the CDC.		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [02] SPECIFICATIONS FOR CIVIL WORK

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
GENERAL REQUIREMENT & Mounting Pad Support	1	Bidder to clean the area of Container placement. Disposal of the removed material / debris should be removed out of the campus as per government guidelines disposal place shall be identified by the bidder.		
	2	The Container DC must be placed on a RCC foundation & platform with conineous support for the perimeter walls. The foundation must be leveled and engineered to support the final total load of the installed and operational container DC.		
	3	The chainlink fencing of 2 Mtr height with verticle MS supports on all sides of the Container Data Centre shopuld be provided at min 2 Mtr distance from the container. Allthe verticle support should be embedded with the concrete. The surrounding area should be leveled and provided with paving blocks of minimumk thickness of 60mm having strenght of minimum M25 grade. There should be proper gate with locking arragements. Painting & finishing to walls and gate with resepect to external ambient condiitons should be carried out. Vendor to give signage board wherever required.		
	4	Vendor must prepare a suitable foundation before unloading and installing the Container DC. Vendor must take into account the findings of the geotechnical report, topographical survey & risk assesment for the Container DC installation particularly w.r.t soil types, frost line & underground infrastructure.		
Securing the DC onto the Foundation & Planning.	5	Vendor must securing the CDC on its foundation to ensure the stable positioning, because of external conditions such as earthquakes, strong wind could case the DC shift position accordingly to the respective IS codes. The container to be installed at IPR campus, all the parameters of this region shall be taken into the consideration for design and installation of CDC.		
	6	In order to secure the CDC, fixing buckets should be anchored onto the foundation / platform.		
	7	Calculate the size of the platform and foundation taking into account of soil type & weight of the DC as it is not evenly distributed. Level and compact the existing soil layer of the foundtaions so that the maximum weight load of the DC can be supported over the entire area.		
	8	Vendor must take into consideration overhead clearnace (particularly with regard to high-voltage/medium-voltage lines) when placing or where DC has to be installed.		
	9	To prepare installation vendor must inspect the foundtaion for any signs of water, debris, settling or subsidence immediately prior to laydown.		

	10	Ensure if any underground infrastructure, including cable trenches and drainages pipes, will not be blocked or damaged during the installation.		
	11	Ensure cables/Pipe inlets & outlets at a safer distance & prohibit unauthorized or untrained personnel in the foundation area before installation.		
	12	Recommended minimum plinth height is 60cm from surrounding natural ground level & the base of the DC.		
Storage of DC before installation	13	Vendor must store the CDC instead immediately installing it, you must ensure that it is completely level during the storage, with a slope no more than 1% from one end to the other & the area well drained.		
	14	The CDC should not touch the bottom of it at any time, and must be resting on the four ISO corner fittings. If the area is not flat enough, the DC must be put on the foundation blocks. Do not remove any of the protective covers used during the transportation.		
Furniture	15	Vendor should provide the required furniture (Computer Table, Storage, Chair) for one person.		
Approach Road for the installation of CDC	16	Vendor should make temporary approach road ( required if any) for transportation & installation of CDC at the final location, vendor may visit for site location for the same. The quoted rate should be inclusive of cost for temporary approach road, required if any.		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [03] SPECIFICATIONS FOR ELECTRIC WORK

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
Distribution Panels and Boards	1	Main Panel, DBs and Sub-DBs shall have front access & Floor mounted, Top Cable Entry & Exit provision.		
	2	Main Electrical Panels construction standard - IP 54 construction Form 2. Complying to IEC 61439-1-2.		
	3	Construction: Design, fabrication, assembly, wiring, supplying, installation, testing and commissioning of front operated cubicle type compartmentalised front access free standing, switchboards suitable for use at 415 volts, 3 phase 4 wire 50 Hertz system suitable for fault level of required value symmetrical at 415 volts, Cu Busbar. Panels manufactured with CRCA sheet thickness of : 1) 1.6mm for structure frames 2) 1.6mm for Doors & covers 3) 1.6mm for Load bearings members 4) 1.6mm for internal partions 5) 1.6mm for Gland plates Powder Coating: Epoxy Polyester based after 7 Tank Processing. Particulars of Shade are given above. Cubicle shade RAL 7047, Mounting structure with RS 9002.. MCCB and MCB operation at 415V AC, and the insulation need to be at 690V/ 1.1kV AC, all Panels shall be duly metal labeled with scheme diagram and Danger mark with 415V AC operation. The panel shall have a provision of cable entry only at top entry. The panel shall have wall and floor grouting system.		
	4	Maximum Main Electrical Panel shortcircuit withstand -50kA		
	5	Panel incorporates an dual input for generator input & Input from the grid. The panel will feed all the equipment in the module as well as the condenser for the air conditioners located outside the module. The main panel includes a power meter and Ethernet gateway for external access.		
	6	Drawings and catalogues: Prior to fabrication of the Panels, the supplier / bidder shall submit drawings and manufacturer's catalogues of the electrical components installed in the Panels for approval		
	8	Test Certificates : Testing of Panels shall be carried out at factory as specified in Indian standards in the presence of representative of IPR or its assignee. The test results shall be recorded on a prescribed form. The test certificate for the test carried out at factory shall be submitted in duplicate to IPR for approval		
	Electric Work	10	There will be 2 incomers from different sources to the Data Center for Main Electrical Panel to be installed in the equipment space area (Inside the container).	
11		The electrical system shall be designed to incorporate spare capacity (Minimum 10%) at each distribution level		
12		All wiring shall be laid in powder coated MS conduits / GI cable Trays.		
13		Cables shall be armored type except where flexibility required does not permit use of armored cable		
14		All Cables should be FRLS (Flame Retardant Low Smoke) type.		
15		Electrical work should have adequate provision for utility power points in each and every area of the Data Center		
16		Electrical system design for above shall conform to the following codes and standards.		
17		1. Indian Standard Specifications		
18		2. Indian Electricity Act		
19		3. Indian Electricity Rules		
20		4. IS wiring code 732 (Revised)		
21		5. Code of practice :		
Scope of Work	26	The bidder shall design, engineer, supply/manufacture, test, erect, install, connect; commission and site test the Electrical Distribution System for any and all power requirements within the Conatiner Data Center facility. This shall include, but not be limited to, UPS, Lighting system, ACDB system and input power to various sub systems of the Data center, design, engineering, supply, erection, wiring, commissioning and testing of equipments is in the Bidder's scope.		

Lighting system	28	The bidder shall carry out design, engineering, installation, wiring, connections, testing and commissioning of the lighting system		
	29	Lighting fixtures (material) of the desired specifications shall be provided to IPR DC site area by Bidders		
	30	Point wiring shall be supplied, erected, connected and tested as required in the entire Data Center Facility		
	31	4 Feet LED Light fixtures need to be considered.		
	32	Emergency lights will be provided and supply will be tapped from non critical load UPS Systems.		
		400 Lux level need to be maintained inside the Data Center facility in IT & Equipment area.		
	33	Proper provision of lighting outside is also in the bid scope. Container entry area and surrounding should be covered with appropriate outdoor lighting system.		
Earthing System	34	There should be minimum four separate grounding systems to be deployed for this project; two catering to the safety requirement of the entire electrical distribution system (Body Earthing) and another two system known as Dedicated Earthing catering to the sensitive electronic equipment located in Containerized Data Center. The four systems should be bonded together by means of use of a test link box. The testing of the earth pits should be done and the value should be as per the latest Indian standards.		
	35	The UPS, Main LT Panels, DB's as well as the Server Rack Distribution Boards should be provided with dedicated earth from these dedicated earth pits		
Power Cabling & Power points	36	Bidder should provide all the power cabling for various systems in the containerized data center. The bidder should consider separate power distribution systems from UPSs (IT and Non-IT UPS)		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [04] SPECIFICATIONS FOR IT-LOAD UPS SYSTEM

Sr. No.	Specification	Compliance Y/N	Remarks
1	The bidder should supply truly online double conversion Modular UPS with Lithium ion Battery		
2	UPS system is required to feed clean and uninterrupted Power Supply to the critical and sensitive IT load. UPS system should be designed and engineered such that it enhances the life of the equipment/instruments/computer systems / network devices, etc. installed in the Data Center Facility. It should not, under any condition harm the quality of operation of these devices/systems		
3	The UPS system should ensure the safe shutdown of the systems / equipments / instruments / controls in case of no-mains condition. Battery backup required in minimum 10 minutes with full IT load i.e. min 90kW should be verified by the Bidder.		
4	System configuration should be one number UPS system with minimum capacity of 100kW or higher capacity with (N+1) loaded modules. Modular UPS should be working in N+1 configuration to power the minimum IT load of 90KW		
5	Offered UPS should be modular Swappable Construction made up of minimum 3 Nos of Internal Swappable type Power Modules. The module capacity may be of 20/25/30/50 KW. UPS design should be kVa=kW at 40 Deg C		
6	Offered UPS should have Current withstand capacity of 35kA for 1 sec( Icw-35kA for 1 sec) / 65kA for 1 sec( Icw-65kA for 1 sec)		
7	Offered UPS should have minimum 96.% Efficiency in Double conversion Mode from 25%, 50%, 75% and 100% load, Same shall be demonstrated if required and supported via third party TUV or UL certify report.		
8	Offered UPS should have Backfeed protection contact inbuilt /external to the UPS		
9	Offered UPS should have internal maintenance bypass switch rated for UPS frame		
10	Offered UPS required with Conformal Coating on Critical PCBs of UPS		
11	Offered UPS should have Dust filter and Rodent Mesh for each UPS		
12	Offered UPS should be compatible with Lithium Ion Battery and UPS vendor should provide the compatibility report with Lithium Ion battery and Offered Model UPS.		
13	Lithium Ion ( LMO-NMC) based battery with back up time of minimum 10 minutes End of Life with 10 years warranty with built in DC Breaker , Battery Cabinet and Battery Monitoring system. Lithium Ion Battery should have UL 1973/UL 1642/UL 9540A FOR LITHIUM ION BATTERY modules.		

14	Offered UPS is required with all type of communication case as default, Based on requirement any one shall be used ,Communication card shall have SNMP IP,MODBUS IP, RS 485 , and Dry contacts card for hardwire configuration.		
15	Dimensions of UPS and battery should be compact to fit in the container. UPS with appropriate dimensions as per the container should be supplied.		
16	UPS shall have minimum IP 20 Ingress Protection.		
17	UPS monitoring and alerts should be configured in the supplied DCIM software		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [05] SPECIFICATIONS FOR NON-IT UPS SYSTEM

Sr. No.	Specification	Compliance Y/N	Remarks
1	The bidder should supply the truly online double conversion UPS with Battery bank.		
2	UPS system is required to feed clean and uninterrupted Power Supply to non IT equipment like HVAC cooling system, lighting systems, Access control, CCTV, WLD etc. Power supply system should be designed and engineered such that it enhances the life of the equipment and should not harm such equipment.		
3	UPS should be supplied with the required capacity of non-IT Load items (HVAC, Emergency lighting, etc.) plus 20% capacity.  Bidder has to submit the calculated non IT load calculations to justify the capacity of the supplied non-IT UPS.		
4	Offered UPS should be offered user replaceable Modular Swppable (Push-in and plug; unplug and pull-out) battery strings with Battery monitoring system. Modular battery shall deliver minimum 15 mins of back up with calculated non-IT load.		
5	Offered UPS is required with all type of communication case as default, Based on requirement any one will be used, Communication card shall have SNMP IP,MODBUS IP, RS 485 , and dry contacts card for hardwire configuration.		
6	UPS shall have minimum IP 20 Ingress Protection.		
7	Dimensions of UPS and battery should be compact to fit in the container. UPS with appropriate dimensions as per the container should be supplied.		
8	UPS monitoring and alerts should be configured in the supplied BMS/ DCIM software		



## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [06] SPECIFICATIONS FOR COOLING SYSTEM

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
Modular, row-based Data Center cooling system- DX type / Aircooled	1	Row based DX type cooling system get placed in the IT Rack row (should not be at end of the row). It should captures hot air closely from IT rack rear end and supplies cold air very near to IT load in front of the racks. Units in row should predict IT load and communicate to each other to modulate its performance to match the IT load.		
	2	Bidder should propose the number of Cooling Units and its capacity as per the total heat load and should supply the design of maintaining N+1 configuration / N+1 redundancy.		
	3	Minimum Total IT load to cool should be calculated is 90KW		
	4	Capacity : Capacity of machine should be proposed by bidder as per the total load and with N+1 redundancy.		
	5	Cooling Units should be designed for 22 deg +- 1 deg supply temperature and as per the Ahmedabad / Gandhinagar's peak ambient conditions. (Please refer ASHRAE last 20 year's data)		
	6	Dimensions: max. 300mm wide. Height and depth should be same to IT rack for smooth integration.		
	7	IDU and ODU to should be capable with dual power input facility		
	8	Refrigerant type- R410A		
	9	Indoor machine frame should be 16 gauge formed steel and panels should be 18 gauge minimum		
	10	Condensate Pump: Internal within Indoor unit		
	11	Cooling coil : Suitable for for high-sensible heat ratios, the coil should be constructed with copper tubes, raised-lance-type aluminum fins, and 18-gauge galvanized steel end plates.		
	12	Humidity Control for setup: External or Internal. RH to maintain : 50%RH +-5 %		
	13	Top and Bottom piping option should be provided		
	14	EC fan for ODU and IDU		
	15	Variable speed fans of IDU should modular fan speed as per IT need. Fans should be hot swappable. Failure of one fan should not stop working of complete unit.		
	16	Compressor in ODU is preferred, however shall be acceptable as per OEM standard.		
	17	Touch-screen display is preferred, however standard display shall be acceptable as per OEM standard		
	18	Electronic Expansion Valve for better efficiency		
	19	Unit should generate alerts like : <ul style="list-style-type: none"> <li>• Cooling failure</li> <li>• Air filter clogged</li> <li>• Return air sensor fault</li> <li>• Supply air sensor fault</li> <li>• Rack temperature sensor fault</li> <li>• High discharge pressure</li> <li>• Low suction pressure</li> <li>• Fan fault</li> </ul>		
	20	Remote Monitoring: Network card for LAN connectivity and remote monitoring through DCIM software		

Cooling for Non-IT Equipment	21	Vendor should provide the required cooling for UPS area / Power room (Equipment room) within the container.		
	22	Cooling for the non IT equipment should be supplied with the required heat load generated for non-IT Load. Bidder has to submit the calculated non IT heat load calculations to justify the capacity of the proposed cooling.		
HVAC	23	Hot Aisle and cold aisle should be separated to avoid hot and cold air mixing. Hot Aisle containment should be provisioned for the Rack Rows. Design should be suitable to container type DC.		
	24	Sliding door : Suitable sliding door for HAC to be provisioned		
	25	HVACS design should be such that it should not hamper serviceability or lighting system or cable tray systems within Container DC		
Low side work	26	Cu piping of 16 gauge or better between IDU to ODU		
	27	All support accessories for piping work should be of best quality		
	28	Gas charging R410A & Pressure testing work etc.		
	29	ODU support stand		
	30	Other works related to low side work to make system work		

**ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)**  
**[07] NETWORK / SERVER RACK SPECIFICATIONS**

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
Rack Specifications	1	Server rack should be standard 19" 42U rack which should host the IT hardware. Front & Rear should be perforated. Rack should be of heavy material and should carry load of IT hardware.		
	2	Vertical Cable managers on both the sides, Earth Kit, Provision to mount rack on rail as per the container specifications, etc. should be included in the rack BOQ.		
	3	Rack Height in U required 42 U		
	4	Rack Hardware mounting Frame Width 19"		
	5	Optimum physical dimensions are required for Racks to manage the floor space within container. Required maximum Height of the rack along with Casters should be less than 2000mm. Minimum Width of the Server rack should be 600mm and for network rack - 800mm/750mm and Depth of the rack should be minimum 1000mm.		
	6	As high density servers environment rack should hold very high weight of the hardware. Required load carrying capacity should be minimum 1000 kg per rack.		
	7	Rack Colour required : Black		
	8	Gauge Ratings - Vertical Posts, Front Door, Rear Door - 16 gauge minimum		
	9	Gauge Ratings - Roof & Side panel - 18 gauge minimum		
	10	Gauge Ratings EIA Mounting Rails - 14 gauge minimum		
	11	Rack should have approvals of minimum EIA-310E, UL 2416, UL 60950-1 & IP 20		
	12	Rack should have Cable access openings with pre-installed brushes in the roof and on roof there should be additional standard accessories to route data & power cables separately. These Cable trough shall be constructed of 16 gauge cold rolled steel.		
	13	All IT Rack should be factory fitted and completely assembled rack should come to site.		
	14	Rack should have minimum two temperature and humidity sensors per rack		
	15	There should be lock & key facility.		
	16	Bidder should supply minimum 6 Server Racks with min 600mm width		
	17	Bidder should supply minimum 2 Network Racks with min 750mm width		
	18	Each supplied rack should have minimum one horizontal cable manager		
	19	Each rack should be supplied with other standard accessories like nut- screws kit, manual, one shelf tray, cable organizer.		

Rack PDU	20	Each rack should be supplied with two numbers of rack PDUs for redundancy		
	21	Individual rack PDU should be of capacity 32 Amp 3ph metered 22 kW with the industry standard sockets (combination of C13 and C19) with input cable of minimum 1.8 meter and IEC 309 industrial socket.		
	22	The rack PDU should be metered which includes real time power monitoring, temperature humidity sensor port and ultra low profile circuit breakers and also should have accessibility through secure web, SNMP, or telnet interface. PDU should have ultra low profile circuit breakers		
	23	The PDU should have USB Port, for firmware upgrade, LCD Screen for view, LED Indicators		
	24	User should be able to Define alarm thresholds in order to avoid overloaded circuits		
	25	PDU should be with approvals: EN 55022 class A, EN 55024, EN 61000-3-2, EN 61000-3-3, FCC part 15 class A, ICES-003		

**ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)**  
**[08] SPECIFICATIONS FOR WATER LEAK DETECTION SYSTEMS**  
**Preferred Makes: SONTAY/STAR CONCEPT/SIEMENS**

Sr. No.	Specification	Compliance Y/N	Remarks
1	The Water leak detection cable shall be the sensor cable used to detect water leaks in the sub floor and data center area.		
2	The Cable shall be capable of water detection over it's entire length. The construction of the cable shall be of PVC Twisted pair, with SS 316 elements, of diameter not exceeding 3.5 mm.		
3	The Cable shall draw excitation signal from a start of the line module. This module shall serve as the interface between the Water leak detection panel and the Sensor Cable.		
4	The Start of Line Interface Module shall be locally placed in the Flooring of the Server area(s), and shall be connected to the WLD Panel through standard 2 c x 1.5 mm <sup>2</sup> Cu-Ar Cable.		
5	The WLD Panel shall be capable of supplying power to the interface modules, and shall serve as the annunciator of alarms through facia mounted zonal LEDs. The panel shall activate sounders programmed zone wise.		
6	Testing procedure shall involve physical application of a wet cloth to the cable, to test the relay operation. The Panel should sound the Alarms, and notify the BMS/DCIM system		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [09] SPECIFICATIONS FOR RODENT REPELLENT SYSTEMS

Preferred Makes: MASER/STAR CONCEPTS

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
RODENT REPELLENT SYSTEM	1	The work includes Supply, Installation, testing and commissioning of Rodent Repellent System using Electronic transmitters of high frequency sound waves, which should emit sound at very high decibel levels painful to pests, as described in the specification given hereunder.		
	2	The system shall consist of a Master Console VHFO, satellites and its cable circuits.		
VERY HIGH FREQUENCY OSCILLATOR (VHFO)	3	These should be Electronic transmitters of high frequency sound waves (well above the 20 KHZ frequency which is the upper limit of the hearing range of the human ear.) emitting sound at high decibel levels (sound pressure) that is audible and painful to pests, but inaudible and harmless to humans. The VHFO system should consist of one Master Console and minimum ten Satellites /Transducers. The Console should be installed in the seating area, or as directed and the satellites in the floor and or ceiling areas.		
	4	The powerful sound waves generated by the satellites of VHFO shall be within the hearing range of many pests, and cause them pain and discomfort. VHFO's satellites should be quiet and inaudible to humans. The VHFO can be added in daisy protocol for interfacing 64 controllers with controller ID with 6 digit password protection. The controller data can be transferred to computer /BMS/DCIM and can be subsequently viewed. LCD display with on board controls for changing the parameter.		
SATELLITE	5	Satellites should cover all the racks and the entire container area. As regards area of false ceilings or false floorings, it should cover the complete area.The satellites should:		
	6	i. Be able to mount in any angle to match the décor.		
	7	ii. Possible to install in sensitive areas.		
	8	iii. Should withstand high temperatures in false ceilings, and low temperatures in cold storages and air locks,		
	9	iv. Should not require a power connection,		
	10	v. Should be able to test on an audible range with the help of a self-testing facility or any other suitable means.		

TECHNICAL INFORMATION SATELLITES	11	A. Crystal DM 44T 24V MAS		
	12	B. Frequency - Peak frequency responses of the satellites		
	13	i) 21.6 KHz+/-3 KHz ii) 31.6 KHz+ /-3 KHz		
	14	iii) 50.4 KHz+ /-3 KHz iv) 60 KHz+ /-3 KHz		
	15	C. Nature of sound waves: The sound waves propagated should be linear sine waves with constantly varying frequencies.		
	16	D. Operating environment range of -4° C to 60° C, 100 % humid environment and also underwater.		
CIRCUIT	17	A. Signal generator should have full wave rectification, regulated 12V DC power supply to withstand power fluctuations ranging from 170V AC to 270V AC.		
	18	B. Amplifier should have a preamplifier stage coupled with signal generator for dual transistor amplification having a push-pull configuration.		
PRESSURE	19	A. Uniform pressure output of 80 dB to 110 dB with 360° transmission angle.		
	20	B. Linear propagation of mixed / variable frequencies detectable at, or about 40 ft distance from the source (Transducer/ Satellite).		
	21	C. Spatial average intensity - 83mW per cm <sup>2</sup>		
POWER SUPPLY	22	A Power Socket (230 V AC) should be provided for each VHFO as may be required. Alternatively, Bidder to specify the required power and the no. of Power Sockets required for each unit for both Rodent.		
	23	A. Operating frequency: Above 20 KHz (Variable)		
	24	B. Sound Output: 50 dB to 110 dB at 1.00 Mts.		
	25	C. Power Output: 800 MW per Satellite		
	26	D. Power Consumption: 15 Watt Approx.		
	27	E. Power Supply: 230 V AC, 50 Hz		
	28	F. Mounting: Wall/Table		

**ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)**  
**[10] SPECIFICATIONS FOR FIRE DETECTION & SUPPRESSION SYSTEMS**

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
Fire Alarm Panel	1	The Fire detection system shall comprise of a central unit, connected by two wires to field devices. Including fire detection devices, alarm devices and control devices, located throughout the protected area. The control unit shall continuously monitor the status of all sensing devices, and initiate the action when a fire or smoke, Heat condition is present		
CHARACTERISTICS	2	Three Form-C relays (1 Fire, 1 Fault and 1 Fire/Fault 2amps @30 VDC)		
	3	Feature Detection Circuits: 2 & 4 Zones		
	4	Zone wise Fire, Fault, Disable indication		
	5	Panel keys: Silence Buzzer/Alarm; Reset;		
	6	Lamp Test & Walk Test		
	7	Standby power 24V DC (2 no's of 12V, 7Ah Lead Acid Battery)		
	8	Event Log- mini 1000 events		
	9	User Interface - Display LCD		
	10	Control Keys-Menu/OK, Silence, Navigation,Reset buttons		
	11	Indicators- Fire, Power, Fault, NAC Fault, Earth Fault, Silence		
	12	Gas suppression system shall be designed taking minimum design concentration as per NFPA 2001(latest edition) guidelines & as applicable to class 'A & C' risks. Major Equipments include but not limited to: 1. 34 , 80, 120, 140lts cylinder with valves & NOVEC agent 2. Electric, Manual & Pneumatic actuators 3. Discharge & actuation hose 4. Discharge nozzles 5. Pressure switch 6. Manual abort & release switch etc...		
	13	System shall be designed taking the minimum design concentration as per NFPA 2001(Latest Edition) guidelines & as applicable to class 'A' & C risks. Proposed case the design concentration based on highest class will be 4.5 %.		
	14	NOVEC-1230 agent shall be stored in seamless steel cylinders and dry nitrogen shall be added to provide additional energy to give the required rapid discharge. At the normal operating pressure of 25 bars at 21 Deg C, the agent is a liquid in the container.		



Novec 1230 Gas Suppression System	15	System shall have a working pressure of 25 bars. A fill density between 0.50 Kg /Lit. To 1.1 Kg/Lit or as recommended by the manufacturer should be considered for the agent to be discharged within the specified time of 10 seconds.		
	16	Vendor should carry out the piping Isometric design and validate the same with a hydraulic flow calculation generated by using the agent's design software. The final fill density to be arrived at based on the same.		
	17	Design & calculation shall be checked & certified by manufacturer /Consultant. The contractor has to take into consideration the routing available while designing the pipe network.		
	18	Vendor shall enclose their design sheet along with the offer & the offer/BOQ should be in line with their design. The dimensions / area of the container to be protected should be given in the drawings.		
	19	Vendor shall consider simultaneous total flooding of all voids within the protected volume. The system shall be designed in accordance with the OEM's Design Manual.		
	20	Final numbers of discharge nozzles shall be according to the OEM's product manual		
	21	Gas flow calculations shall be carried out on software given by the OEM. The software should support usage of seamless cylinders which have a different design compared to the standard containers used worldwide. The system acceptance report shall show the resulting concentration in each independent void to be above 4.5% and the average pressure at each nozzle to be not less than 25 bar.		
	22	Agent discharge time shall not exceed 10 seconds and not less than 5 seconds.		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [11] SPECIFICATIONS FOR CCTV SYSTEM

Preferred Makes: HONEYWELL / AXIS / BOSCH / SIEMENS

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
General Requirement	1	The system should be installed to monitor the Facility on continuous basis for the movement of people within and around the Data Center facility.		
	2	The primary purpose of the system is to sense the abnormal movement / behaviour of the people so that the security and the concerned facility operation staff can be alerted in case of abnormal behaviour. This also provides the recording of the abnormal events such as fire, intrusion, etc.		
	3	To provide clear & accurate indication of an intruder or abnormal movement within and around the Facility		
	4	CCTV based monitoring and surveillance system shall be provided at the desired locations (to cover the inside and outside the container area).		
	5	Activities to be recorded and the archival to be kept for should be for minimum 30 days. System should have provision of automatic back up to suitable device (NAS or exisitng storage) at regular (configurable) intervals.		
Camera specifications	6	The camera unit should be ¼" CCD type Digital Signal Processor Color Camera. The camera must have Auto Gain Control and Back Light Compensation. The complete unit shall be housed in a dome and base unit, both made from the material suitable for required fire grade. The camera should be tamperproof. It shall be possible to adjust the camera head inside the dome in both the planes so that it can be wall or ceiling mounted.		
	7	Total 8 cameras (indoor and outdoor) should be provided. Please note, based on the submitting planning and the coverage area IPR may change indoor and outdoor camera combinations.		
	8	Supplied camera should be with the Night Vision to get the proper recordings during night time.		
	9	NVR (Network Video Recorder) should be of minimum 8CH, H.264 video compression technology of same make as Camera.		
	10	NVR Should have minimum 2 TB Internal storage & expandable up to minimum 6 TB.		
	11	HDD installed in the NVR should be with minimum Raid1 Configuration		
	12	It should have built-in web viewer for remote viewing, playback, control and configuration		

Network Video Recorder (NVR)	13	The recorded files in the NVR should be easily exportable and should not be bound by any licencing for viewing (e.g. the exported files can be played on the VLC player)		
	14	NVR should be installed in one of the Network Rack of the Container / as decided during the installation by IPR.		
	15	NVR should have the feature for Monitoring & Controlling through LAN using inbuilt and or DCIM Software.		
	16	NVR appliance should have the feature to control using USB mouse from the front panel and or physical buttons.		

**ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)****[12] SPECIFICATIONS FOR ACCESS CONTROL SYSTEMS**

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
General Requirement	1	The Access Control System shall be installed to serve the objective of allowing entry (Container IN) and exit (Container OUT) to the containerized Data Center to authorized personnel only.		
	2	The system employed should be based on biometric and card for the Data Center entry / exit.		
	3	Door position sensors should be provided as required and should be properly integrated with the Door Controller System and Software		
Door Controller	4	Suitable Door Controller system shall be provided. Bidder has to provide complete details of the controller offered.		
	5	Bidder should ensure that single point of failure shall affect the corresponding access door only		
Finger Print Reader	6	The Finger Print Reader (FPR) should be a device, which is capable of reading a fingerprint & comparing the same with a stored template based on optic sensors.		
	7	The FPR should store the fingerprint templates of each cardholder indexed against the card number issued to the person.		
	8	When a card is presented at the proximity card reader, the card number shall be passed on to the FPR, which would then read the finger print, compare it against the templates stored against the same card number. If the fingerprint is matched, FPR shall give signal to the door controller system.		
	9	In case the fingerprint is not matched, access should be denied.		
	10	It should be possible to configure the reader to store template of multiple fingers per person. It should be possible to configure access logic to accept alternate template for granting the access		
Electro Magnetic Locks	11	The Electro Magnetic Lock (EML) shall mean a locking mechanism that works on the principle of electromagnetic attraction. The EML should be installed on single swing flush doors. The door controller system shall control the EML.		
	12	The type and specification of the locks should be in accordance with the door design and specification and also the door controller system		
Reports & Alert	13	The system should generate reports on daily/ weekly/ monthly basis and should have facility to configure e-mail alert and SMS facility for any failure.		

## ANNEXURE-B (TECHNICAL COMPLIANCE SHEET)

### [13] SPECIFICATIONS FOR DCIM/BMS SOFTWARE Preferred Makes: Vertiv / APC / RITTAL/ HONEYWELL

Parameter	Sr. No.	Specification	Compliance Y/N	Remarks
General Requirement	1	Vendor should supply and implement DCIM solution including hardware/Virtual server, DCIM application/os, DCIM db, DCIM software licenses for successful installation of DCIM application.		
	2	Proposed DCIM solution should be provided with perpetual licensing and for minimum all the supplied componets. This includes any additional sensors required in containerized Data Center area.		
	3	Proposed DCIM solution OEM should be engaged in the development of data center infrastructure management systems whose products have been in satisfactory use in similar service for a minimum of 5 years.		
	4	Proposed DCIM application should have been deployed in any PSU/Bank/Govt Department spanning a minimum of 10 Racks Infrastructure.		
Technical Specifications	5	The DCIM should be able to collect required data from BMS System through Modbus/TCP/IP or BACnet/IP or SNMP for data analysis in DCIM.		
	6	If any gateway used for such integration should be UL listed.		
	7	Proposed DCIM system should be modular and support perpetual licensing.		
	8	The DCIM should be able to run on a physical / virtualized server. Required hardware (Workstation / server) with software needs to be supplied, configured and installed.		
	9	DCIM software licensing should be Perpetual in nature which means that license once bought for various polled devices/racks etc. never expires. During the software warranty / Support period this licesne should be kept up to date with new releases as and when they are launched.		
	10	DCIM system should be installed in the containerized Data Center and should have the ability to aggregate data back to an dashboard at seating area planned inside the container.		
	11	Proposed DCIM solution should be designed & implemetned with a appropriate connectivity (Ethernet Network,Modbus, etc.)		
	12	using the BACnet®/IP, SNMP, and/or Modbus® TCP protocol. DCIM platform should also be capable of pushing monitored device information to any Third-Party NMS system using SNMP INFORM/REQUEST procedures and to third party BMS system using Modbus TCP out channel. By this the DCIM system should ensure it integrates back to commonly needed Infrastructure devices like CRAC, Diesel Generators, Energy Meters, Branch Circuit Power meters, Rack mount Intelligent PDU, HVAC compoents and any other monitoring systems.		

	13	The installed system should be able to use web services to receive information within the Network with other products and the systems.		
	14	Minimum 4 client should be able to monitor the DCIM simulataneously.		
	15	Roll based access control should be configurable in the supplied DCIM application		
	16	DCIM system should be able to create reports in at least .CSV formats.		
Architecture Layers	17	Proposed DCIM should be created in separate installations to maintain sanctity of data as follows: a. Gateway/Convertor Devices: Required for connecting to third party BMS/ third party BMS controllers/field devices and building side device Integrator system. b. Monitoring layer: Responsible for polling all Infrastructure Monitoring Points. OEM is free to create the following independent Polling Systems: 1: SNMP base Infrastructure devices inside the datacenter like Rack Mount PDU, EMS systems 2: Building side devices operating on core Building side protocols like BACNET, MODBUS RTU etc.		
Dashboard & Reporting System	18	A Portal Interface should be created within the DCIM system to ensure that all components can depict Top level Views of complete system on single screen. This should act as a Top-Level view of Datacenter performance which should allow links to drill down into more granular systems as and when required.		
	19	The DCIM application should provide real time Power Usage Effectiveness (PUE), DCIE values and able to deliver Weekly, Monthly, Quarterly & Yearly PUE report.		
	20	DCIM should be able to generate Dashboard and Reports		
Display	21	DC Operator should get all the details on the supplied Computer System / Workstation.		

Annexure-C  
**COMPREHENSIVE WARRANTY CERTIFICATE**

We warranty that everything supplied by us hereunder is brand new, free from all defects and faults in materials, workmanship and manufacture and is of the highest grade and quality and consistent with the established and generally accepted standards for material of the type ordered, are in full conformity with the specification, drawing, or samples, and operate properly. We shall be fully responsible for its efficient operation. This warranty shall survive inspection of and payment or, and acceptance of the goods, but shall expire (except in respect of complaints of which the contractor has been notified prior to such date) 36 months after the final acceptance by the IPR.

The obligations under the Warranty expressed above include all cost relating to labour, spares, maintenance (preventive and unscheduled) and transport charges from site to the manufacturer's works and back and free repair/adjustment or replacement at site or any parts of the equipment which under normal and proper use and maintenance proves defective in design, material or workmanship or fails to conform to the specification previously given by the IPR to the contractor.

**Signature with Seal of the Vendor**

Date: \_\_\_\_\_

Place: \_\_\_\_\_

Please Note: This warranty certificate needs to be printed on company letter head.

# Annexure-D

## (Acceptance Criteria)

Complete Acceptance will be at IPR site for this Turnkey Project.

Major Component wise Acceptance Chart is as below:

Sr. No.	Acceptance Component(s)	Testing / Checking / Reports etc.
01	Civil Works	Proposed work approval from the IPR. Works Inspection & Acceptance after the completion.
02	Electrical / UPS	SLD approval from Internal Expert from IPR and Works Inspection & Acceptance after the completion of Electrical works. Grounding Works: Required number of earth pits should be constructed around the periphery of the container module for grounding purpose. The reading should be submitted to IPR and IPR will verify the same with the inputs from internal experts UPS Load and Battery Backup testing.
03	Cooling Solution	Testing for 24 hours with the heat load. Heat load will be installed / provided by IPR during testing. Works Inspection & Acceptance after the completion.
04	Safety / Security	Proposed work approval from the IPR. Works Inspection & Acceptance after the completion.
05	DCIM / BMS Software	Various alert generation (through Email and or SMS) for UPS, CCTV, WLD, Fire, PDU, Main LT panel, etc. Report Generations: (Utilization / Readings report) Daily, Weekly & Monthly report generation. Live Monitoring / Dashboard with all major components (Power usage, UPS load, Cooling, Rack load, cooling, etc.) LIVE data display.

Consolidated SI (System Integrator) Acceptance will be based on the component-wise acceptance mentioned in above chart and submission of the below:

06	SI Acceptance	Project Completion Certificate with the signature of Officer-in-Charge IPR and below documents : a) Site Clearance certificate (Administration & Civil section) b) Operational Manuals = 3 sets c) Approved Design Drawings = 3 sets d) Warranty Certificates (Annexure C) = 3 sets
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**SECTION 'D'**  
**FORMAT FOR SUBMISSION**  
**OF PART-II**  
**(PRICE)**

[Validate](#)[Print](#)[Help](#)

## Item Rate BoQ

Tender Inviting Authority: Head - Purchase Section

Name of Work: Supply, installation, testing, commissioning and site acceptance of the Containerized Data Center at IPR (Turnkey Project) as per the detailed specifications mentioned in the tender document

Tender No: IPR/TN/PUR/TPT/ET/21-22/012 dated 31-08-2021

<b>Name of the Bidder/ Bidding Firm / Company :</b>	
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### PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Civil Works, as per the details mentioned in the tender document	1.000	Job		0.00	INR Zero Only
2	Electrical Works, as per the details mentioned in the tender document and with 3 years warranty.	1.000	Job		0.00	INR Zero Only
3	Supply of Modular UPS for IT Load, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	No.		0.00	INR Zero Only
4	Supply of UPS for Non-IT Load, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	No.		0.00	INR Zero Only
5	<b>NETWORK / SERVER RACKS</b>					
5.1	Supply of Modular Server Racks , as per the specifications mentioned in the tender document and with 3 years warranty.	6.000	No.		0.00	INR Zero Only
5.2	Supply of Modular Network Racks, as per the specifications mentioned in the tender document and with 3 years warranty.	2.000	No.		0.00	INR Zero Only
5.3	Supply of Racks PDUs, as per the specifications mentioned in the tender document and with 3 years warranty.	16.000	No.		0.00	INR Zero Only

6	<b>COOLING SOLUTION</b>					
6.1	Supply of In Row precision Cooling System, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
6.2	Supply of Outdoor Units, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
6.3	Supply of HVAC low level components, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
7	Supply of Water Leak Detection (WLD) System, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
8	Supply of Rodent Repellent System, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
9	Supply of Fire Detection and Suppression System, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
10	Supply of CCTV setup, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
11	Supply of Access Control System, as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	set		0.00	INR Zero Only
12	Supply of Data Center Infrastructure Mangement (DCIM) / Building Management Software (BMS), as per the specifications mentioned in the tender document and with 3 years warranty.	1.000	Job		0.00	INR Zero Only
13	Complete Turnkey Project Installation, commissioning & testing charges (including unloading, shifting, handling with accessories) and quarterly preventive maintenance charges covered under 3 years comprehensive warranty period.	1.000	Job		0.00	INR Zero Only
14	Any additional charges (which are not covered above)	1.000	Job		0.00	INR Zero Only
<b>Total in Figures</b>					<b>0.00</b>	INR Zero Only
<b>Quoted Rate in Words</b>	<b>INR Zero Only</b>					