निविदा फार्म/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, फैक्स: 079-23962277

निमंत्रण निविदा और निविदाकारों को निर्देश करने के लिए Invitation to Tender and Instructions to Tenderers

The Purchase Officer, Institute for Plasma Research invites, online tenders IN **TWO PART (INR quote only)** for supply of stores as detailed in the Purchaser's Tender documents. The conditions of contract and instructions to tenderers which will govern the contract pursuant to tender are given below.

If you are in a position to quote for the supply in accordance with the requirements stated in the attached Tender Form please submit your quotation **online.** The quote should be in INR 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.

Yours faithfully,

Purchase Officer-II/क्रय अधिकारी-II के लिए और की ओर से प्लाज़्मा अनुसंधान संस्थान/ For & on behalf of The Institute for Plasma Research (खरीददार / The Purchaser)

Encl: as above.

INSTRUCTIONS FOR ONLINE SUBMISSION

- 1) It is mandatory for all the applicants to have **class-III digital signature certificate** from any of the licensed Certifying Applicant to participate in e-tendering.
- In order to participate in online e-tendering process, it is 2) mandatory for the applicants to have user ID & password to get access to the website www.tenderwizard.com/DAE. The applicants have to get registered their firm / company with the service provider, M/s ITI Limited for user ID & password. The registration shall be done by paying an annual registration fees to M/s ITI Limited and completing other formalities as mentioned in the www.tenderwizard.com/DAE. Validity of online registration is for one year from the date of its issuance and may be renewed by paying the applicable amount. assistance/clarifications please contact Mr. Sunil K Patel at mobile twhelpdesk426@gmail.com 09624981992, e-mail: nodalofficer.et@ipr.res.in or All India Help line No: 91-80-40482000/18004255048, e-mail: daehelpdesk@tenderwizard.co.in.
- 3) The applicants, who have already obtained such valid user ID and password from M/s ITI Limited, for any other tender of DAE, need not obtain fresh user ID and password for the purpose of participation in the present tender.
- The services for e-tendering in IPR/DAE is provided by M/s ITI 4) Ltd., Tender wizard Help Desk Centre, # 24, 1st Floor, Sudha Complex, Circle, Havanoor 3rd Stage, 4th Near Block, Basaveshwaranagar, Bangalore 560079, Ph:91-80-40482000/18004255048, 91-80-40482114, Telefax: Email: daehelpdesk@tenderwizard.co.in.
- 5) The quotations shall be submitted online in the prescribed format before the date and time as mentioned in tender document. No other mode of submission is acceptable.
- 6) On successful e-payment of tender processing fees, the applicants can download the tender documents (including Excel sheets, if any) from the e-tendering portal.
- 7) Submission 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.
- 8) Applicants are advised to submit their documents well before the due date. IPR shall not be responsible for any delay in submission of documents for any reason including server and technical problems.
- 9) Applicants are advised to fill all the mandatory fields (coloured cells) of the excel files of the Tender. If applicant keeps any mandatory cell blank, System will not allow to close/save the file.
- 10) In case of any problem with the submission of the offer documents, the applicant may have the assistance of helpdesk or use the help manual given on the said website or mobile and e-mail mentioned elsewhere.

प्लाज़्मा अनुसंधान संस्थान INSTITUTE FOR PLASMA RESEARCH

इंदीरा ब्रिज के पास, भाट, गांधीनगर - 382428, NEAR INDIRA BRIDGE, BHAT, GANDHINAGAR 382 428 ग्जरात राज्य GUJARAT STATE

दूरभाष Phone: 079 23962020, 23962021 फैक्स Fax: 079 23962277

निविदा स्चना TENDER NOTICE NO: IPR/TN/PUR/TPT/ET/19-20/3 दिनांकित DATED 29-04-2019

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 PART** through e-tendering mode from reputed and eligible parties for the following.

मद का विवरण Item Description निविदा प्रक्रिया शुल्क Tender Processing Fee	Supply and implementation of Hyper Converged Infrastructure (HCI) with Disaster Recovery (DR) Solution for Server Virtualisation as per the specifications mentioned in the tender document. Tender Processing Fee of Rs.5900.00 should be paid through electronic mode to M/s ITI Limited.
बयाना राशि जमा EMD	Rs.3,96,000.00 (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)
निविदा दस्तावेज वेबसाइट पर देखने और	09.00 hrs. on 30/04/2019 to 12.55 hrs. on 19/06/2019
डाउनलोड करने के लिए उपलब्ध है	
Tender document available for view and downloading on website	
निविदा दस्तावेज़ के संबंध में स्पष्टीकरण	09.00 hrs. on 30/04/2019 to 16.00 hrs. on 27/05/2019
Clarifications regarding Tender document	
निविदा ऑनलाइन जमा करने की अंतिम	19/06/2019 at 13.00 hrs.
तिथि	
Closing of online submission of tenders	
भाग-। के ऑनलाइन खोलने का समय	19/06/2019 at 14.30 hrs.
और तिथि (तकनीकी बोली)	
Time and Date of online Opening of PART-I (Technical Bid)	
भाग-II के ऑनलाइन खोलने का समय	Will be declared later on
और तिथि (मूल्य बोली)	
Time and Date of online Opening of PART-II (Price Bid)	

आवेदक <u>www.tenderwizard.com/DAE</u> वेबसाइट पर 27/05/2019 (16:00 बजे तक) तारीख तक अपने संदेह अपलोड करके निविदा दस्तावेज के संबंध में स्पष्टीकरण (बोली से पहले) प्राप्त कर सकता है। स्पष्टीकरण उसी वेब पोर्टल **www.tenderwizard.com/DAE** पर 30/05/2019 (17:30 बजे) तक अपलोड किए जाएंगे।

The applicant can seek clarifications (pre-bid) regarding the tender document up to 27/05/2019 (16:00 Hrs) by uploading their queries on website www.tenderwizard.com/DAE . The clarifications will be uploaded on the same web portal www.tenderwizard.com/DAE by 30/05/2019 (17:30 Hrs).

विस्तृत निविदा सूचना,योग्यता मानदंड और निविदा दस्तावेज के साथ वेबसाइट www.tenderwizard.com/DAE पर नि:शुल्क देखने और डाउनलोड करने के लिए उपलब्ध है। ई-निविदा प्रक्रिया में भाग लेने के लिए, उपर्युक्त ई-निविदा पोर्टल पर रजिस्टर करना अनिवार्य है और डिजिटल हस्ताक्षर प्रमाणपत्र (श्रेणी-III) होना आवश्यक है। बोलीदाता नए रजिस्टरेशन/टेन्डिरंग में सहायता के लिए पऊवि हेल्पडेस्क से daehelpdesk@tenderwizard.co.in पर संपर्क कर सकते हैं, फोन नंबर:(80)-40482000/ 9624981992/18004255048

Detailed tender notice along with Eligibility criteria and Tender Document is available on website **www.tenderwizard.com/DAE** 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 help, bidders may contact DAE Helpdesk at daehelpdesk@tenderwizard.co.in Phone No: (80)-40482000/9624981992/18004255048

इस निविदा सूचना की एक प्रति संस्थान की वेबसाइट www.ipr.res.in//purchasetenders.html पर भी उपलब्ध है। अधिक जानकारी के लिए, कृपया संपर्क करें: 079 23962020/2021, फ़ैक्स: 079 23962277।

A copy of this tender notice is also available on the Institute's website www.ipr.res.in//purchasetenders.html. For further information, please contact: 079 23962020/2021, Fax: 079 23962

Form No: IPR-LP-ET-02.V5

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 (Technocommercial) 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 3rd of a

particular month and if the 3rd 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 120 (One hundred twenty) days from the date of opening of Part-II (Price) 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.
- 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 Statement 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 certififed that we abide by the all the provisions of Acts of Government and rules made thereunder especially regarding anti-profiteering provisions.
- Certified 18.4.12 further that (our Branch agent) we or the State (address) are registered as dealers in of under Local Regn. No._ and in the State Central of under Regn. 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.

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 with holding 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.
 - o **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.
 - o **Insured by:** (Name of the Contractor)
 - Beneficiary: Institute for Plasma Research, Near Indira Bridge, Bhat, Gandhinagar-382428.
 - o **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 ite	em/s i.e		, being pr	ocured		
from M/s	against	our I	Purchase	Order		
No dated		will k	be used	l for		
We also ce	ertify that the it	em/s wi	ill not be u	ısed in		
designing, developing, fabricating	ng or testing of	any che	emical, bio	logical,		
nuclear, or weapons of mass destruction or activities related to it. It is						
further certified that we will no	t re-export the	Item/s p	prior to ob	taining		
permission from the concerned a	ıuthorities as m	ay be re	quired".	_		

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 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 sib-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 t 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 contractors 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.
- 5.7.2The 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 under the clause. the cost ofthe 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 hall 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
- 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 indemnity 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 by 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

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 of Form No. IPR-LP-ET-02.V5

TENDER FORM INSTITUTE FOR PLASMA RESEARCH

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

Following terms are replaced in our Form for Tender No. IPR/TN/PUR/TPT/ET/19-20/3 dated 29/04/2019

- 1) Sr.No.3.1 (Section-A) under heading "Earnest Money Deposit (EMD)" of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following: The Tenderer shall submit, as part of its bid, interest free Earnest Money Deposit (EMD) for an amount as specified in the Tender Notice. 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)
- 2) Sr.No.3.4 (Section-A) under heading "Earnest Money Deposit (EMD)" of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following: **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.
- 3) 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 and its sub-clauses deleted from Form No: IPR-LP-ET-02.V5.
- 4) Sr.No.31 (Section-A) under heading "Delivery" of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:
 - Contract Execution Schedule: All equipments/machinery/plant/component covered by this tender document should be supplied at IPR as per the Contract Execution schedule (The project completion schedule including delivery, installation, commissioning (one time implementation) and final acceptance should be done within 6 (six) months from the date of placement of purchase order) given under clause No. 3.2 of Section-C. 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.

Deferred Terms of Form No. IPR-LP-ET-02.V5

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

 Warranty/Guarantee: Vendor has to provide Five (5) years of comprehensive warranty and 24x7 support services from OEM for supplied hardware and software components. The warranty will start from the date of acceptance.
- 6) Sr. No. 35 (Section-B) under heading Mode of Payment 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 supply item(s) [i.e. Item sr.no. 1, 2 and 5 of Price Bid) + 100% of all other charges will be paid after receipt of material at IPR site, its verification by IPR representative and on receipt of invoice in triplicate.
- b) **80%** of basic price of Software item(s) [i.e. Item sr.no. 3, 4 and 6 of Price Bid) + 100% of all other charges will be paid after receipt of license key, validation of software versions/editions and after activation of proposed software licenses at IPR site, its verification/validation by IPR representative and on receipt of invoice in triplicate.
- c) Balance 20% of supply item(s) & software items [i.e. Item sr.no. 1 to 6 of Price Bid) + 100% of Item sr.no. 7 & 8 of Price Bid will be paid on completion of one time implementation, successful User Acceptance Test (UAT) certified by authorised representative of IPR, completion of training, on submission of Performance Bank Guarantee for 10% of the order value 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 throughout the warranty period (plus additional two months grace period) and also on receipt of final invoice.

<u>Note</u>: It is preferable to raise <u>separate invoices</u> for supply and service items.

Following terms is <u>added</u> to our Form No. IPR-LP-ET-02.V5 for Tender No. IPR/TN/PUR/TPT/ET/19-20/3 dated 29/04/2019.

a) **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.

Supply and Implementation of Hyper Converged Infrastructure (HCI) with Disaster Recovery (DR) Solution for server virtualisation For Institute for Plasma Research (IPR)

1. Scope of Work (SOW)

Supply, installation, commissioning and maintenance of Hyper-Converged Infrastructure (HCI) cluster with Disaster recovery (DR) solution. The solution will be installed at IPR campus (primary Site) and FCIPT, Gandhinagar (far DR) Site.

Proposed solution shall offer comprehensive platform for an integrated server virtualization infrastructure which includes following items for which detailed specifications and Bill of Material are listed in subsequent sections.

- Server Nodes (server hardware) with storage drives of required capacity and type for primary (ST1) and secondary site (ST2).
- Required number of licenses for proposed bare metal Hypervisor for all proposed nodes/sockets.
- HCI software kit with SDS (Software Define Storage) features for all proposed nodes.
- Unified management and monitoring software including Hypervisor, SDS related features for both the sites.
- Software components for replication of at-least 50 VMs and its management.
- Software components for failover-failback automation and orchestration for at-least 50 VMs.
- Two number of ToR network switches with 48x10GBASE-T and 6xQSFP+ connectivity.
- Backup software for all proposed node to be deployed at primary site.
- One time implementation of HCI solution as per IPR's requirements at IPR, Bhat Village campus (Primary Site – ST1) and FCIPT, Sector-25, Gandhinagar (DR site –ST2).
- Five years of comprehensive warranty and 24x7 support services from OEM for supplied hardware and software components.
- Minimum 4 Days OEM Instructor led administrative training for 3 members.

Note: One ToR switch required at DR site will be provided by IPR. The connectivity between ST1 and ST2 is 100 Mbps P2P line.

1.1. Supply of Hardware & Associated Software

1.1.1 ST1 Site (IPR Campus, Near Indira Bridge, Bhat, Gandhinagar -382428, Gujarat):

The vendor must supply minimum 100 usable cores (200 hyper threaded) and 1364 GB (1.3 TB) or higher usable RAM across HCI cluster for ST1. However any other overhead required by the HCI solution and associated software components should be factor additional. In case

if vendor chooses to provide more cores per node, then also minimum four numbers of nodes are to be supplied for ST1 site.

The storage solution offered shall be either Hybrid or All-flash. In case of Hybrid solution, the cache tire must be Solid State Drives (SSD, 12 Gbps connectivity) and capacity tire shall be SAS HDDs (12 Gbps, 10K RPM).

Even after single node failure and without considering de-duplication/compression advantage the vendor must supply 24 TB usable storage capacity. Even after one node failure there should be two copies of data across the cluster (continue comply for RF-2). Any other storage overhead required by HCI Solution for RF2 (FTR -1/FTT-1 – means two copies of data across cluster) should be factor additionally. Vendor providing the solution do not have support for compression and deduplication on hybrid storage has to provide extra 4TB usable storage (i.e. 28 TB usable storage instead of 24 TB).

All HCI nodes proposed for primary site should connect over 10 GBASE-T IP connectivity.

1.1.2 ST2 Site (FCIPT Campus, Sector-25, GIDC, Gandhinagar, Gujarat):

The vendor must supply minimum 50 usable cores (100 hyper threaded) and 1024 GB (1 TB) or higher usable RAM across HCI cluster for ST2. However any other overhead required by the HCI solution should be factor additionally. In case if vendor chooses to provide more cores per node, then also minimum three numbers of nodes are to be supplied for ST2 site. Only one loaded CPU socket is very well acceptable in case of two CPU socket nodes. The solution proposed for ST2 site must be compatible (preferable identical – same make and model) with the solution proposed for ST1 site.

The storage solution offered shall be either Hybrid or All-flash. In case of Hybrid solution, the cache tire must be Solid State Drives (SSD, 12 Gbps connectivity) and capacity tire may be ALL—FLASH or SAS HDDs (12Gbps, 10K RPM).

The vendor must supply 21 TB usable storage capacity and 1024 GB RAM across HCI cluster without considering de-duplication and compression advantage. Any other storage overhead required by HCI Solution for RF2 (FTR -1/FTT-1 — means two copies of data across cluster) should be factor additionally. Vendor providing the solution do not have support for compression and deduplication on hybrid storage has to provide extra 2TB usable storage (i.e. 23 TB usable storage instead of 21 TB).

The nodes for proposed HCI solution should connect over 10 GBASE-T IP connectivity.

1.1.3 Proposed Bill of Material (BoM) for hardware and software:

The offered solution shall include required licenses of HCI software including the SDS (Software Define Storage) features. This will also include the replication capability and automated failover-failback capability from day one.

The proposed integrated system should include required licenses for unified management and configuration software that can handle management and monitor the health and status of the given HCI system at both the ST1 and ST2 site.

The details specifications are listed in subsequence section. Tentative Bill of Material is given below. Vendor can add/remove items to meets the IPR needs.

Line Item	Description	Qty. Nos.	Make/Mo del/Editio n/Version(with OEM part number)	Proposed Quantity
1.	Four or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for primary site including 5 years onsite comprehensive warranty. For details refer technical specification.	One set of HCI cluster having 4 or higher number of nodes.		
2.	Three or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for secondary/DR site including 5 years onsite comprehensive warranty. For details refer technical specification.	One Set HCI cluster having 3 or higher number of nodes.		
3.	The required software licenses for four or higher nodes HCI cluster proposed for primary site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCI) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will include five years of software support subscription of all proposed software components.	One Set of required software components with required number of licenses.		

SECTION - C

	For details refer technical specification.		
4.	The required software licenses for three or higher nodes HCI cluster proposed for secondary/DR site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCI) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will include five years of software support subscription of all proposed software components. For details refer technical specification.	One Set of Required software components with required number of licenses.	
5.	Two number of ToR network switches having 48x 10BASE-T and 6xQSFP+ connectivity. For details refer technical specification.	Two ToR network switches. The switch required at DR site will be provided by IPR.	
6.	Backup and recovery software solution for all proposed nodes of primary site (ST1). For details refer technical specification.	Back-up solution for primary site only with required number of software components with required number of licenses.	
7.	One time implementation – Configuration and implementation of entire HCI solutions, migration of existing physical server to HCI infrastructure, configuration and implementation of failover-failback solution at ST1 and ST2 site. Integration of existing solution with LAN and WAN setup. Configuration and implementation of	One.	

	backup solution as per IPR's needs. (refer detail specification)		
	For details refer technical specification.		
8.	Minimum 4 Days OEM Instructor led administrative training for 3 persons.	One.	
9.	Additional items (if any) required to meet IPR specifications		

NOTE: OEM part number to be mentioned in BOM for all the hardware and software Components. The software version and edition (i.e started, foundation, enterprise) also to be mentioned for all proposed software. Bidder is responsible to provide the data sheet for all the proposed components along with bid.

1.2 One time Implementation

The implementation work includes following but it is not limited to:-

Unpacking, assembling, rack mounting and installation of all the components of proposed solution at IPR, Bhat Village data centre (ST1). The components for ST2 will also be unpacking, installed and configured at ST1 site and once all the functionality including DR is tested and one time data replication is completed it will be shifted to ST2.

All cabling must be done properly with proper workmanship so as to provide efficient air circulation and must not block any air circulation behind the servers.

Installation, configuration and implementation of HCI Solution at IPR and integration with existing LAN based on best practices. This also includes installation and configuration of Hypervisor OS on all nodes along with installation and configuration of management software and other software components.

Configuration of High Availability (HA) to sustain minimum one disk failure per node, minimum one node failure at each site ST1 and ST2. The entire network stack must be configured with no single point of failure.

IPR is currently running IT services on physical server connected to SAN storage (without any virtualisation). The vendor will be responsible to migrate the services to HCI environment with HA capabilities. The physical machines with data to be migrated to the proposed virtual environments are listed in **Annexure- D**.

Define storage policy for critical and non-critical VMs; optimize resources utilisation for maximum performance.

Configuring and scheduling automated snapshots with automated deletion of older snapshots for critical VMs.

Configure and automate the backup solution as per the requirement. Demonstrate the backup within and outside HCI environment, demonstrate the recovery of VM from respective backup after deletion of original VM.

Configure and automate the replication policy as per the IPR's need for each critical VMs.

Configure the fail-over and fail-back and demonstrate the functionality. Consider the IP Scheme for ST1 and ST2 are different, imitate the connectivity of both sites are over WAN.

Once demonstrated the DR functionality and full replication is performed, the HCI nodes will be shifted to ST2 (The expense to shift the require nodes and components to DR site will be borne by IPR). Demonstration of failover and failback operation between ST1 and ST2 in production environment after Go-Live at FCIPT campus.

Configuring all required monitoring policies and e-mail alerts to have regular reports.

Configuration and implementation of entire solution shall be certified by HCI OEM before project sign-off.

Vendor has to implement entire solution as per the requirement of IPR and has to ensure minimum downtime during the implementation and migration activity. However any downtime is required, IPR will provide the same after office hours. Bidder has to request any downtime well in advance to IPR IT staff.

Project sign-off will be done on completion of steady state operation period of 30 days and submission of documentations to IPR. Project shall be considered as completed once project sign-off is done.

Submit installation and configuration documentation (documentation shall include screenshots for steps performed). Standard Operating Procedures (SOP) to be provided for start-up-shutdown of HCI solution, start-up shutdown of individual host, failover-failback procedure, routine operation and maintenance procedure.

The details specifications are listed in subsequence section. The test must be carried out by the vendor as per the Annexure – A before Go-Live and test reports to be prepared and submitted to IPR IT staff.

1.3. Support and subscription for HCI Solution

Bidder shall provide minimum 5 years of OEM support and subscription services for entire HCI solution (including hardware and software). Direct 24x7 OEM support, 8 hours problem resolution including replacement of faulty part. The support shall be for unlimited incident including the unlimited upgrades and updates for 5 years.

The warranty period shall start from the date of project sign-off. In case if delay caused by IPR, after 2 Months of delivery of entire solution the warranty period will start automatically.

The support must be directly from OEM and must furnish OEM part number to verify the support eligibility for the entire duration of the support period.

OEM should ensure that, IPR gets all firmware updates/upgrades for underline hardware, patches for HCI software during contract period of 5 years without any additional cost to IPR.

The vendor must provide assurance of minimum 6 years of support for the proposed solution from the release of tender date.

The SI/OEM engineer must perform onsite/remote periodic health checks every three months.

In the event of specific hardware/software component failure (incident), the vendor must have to prepare an incident report and complete the acceptance test with-in 15 working days and must submit a brief report to IPR.

The vendor must ensure that during the course of upgrade or maintenance, No data is lost occur.

Vendor has to submit the escalation matrix for his/her organisation and OEM. Any changes to escalation matrix for vendor organisation or OEM must be communicated immediately to IPR to have better service guaranty.

Vendor shall provide following comprehensive support services during warranty period at ST1 and ST2 (even after DR site is migrated to anywhere INDIA):

- Onsite/remote support for incident analysis and resolution.
- Onsite/remote support for configuration change and new configuration as per the requirement.
- Onsite/remote support for any maintenance, start-up shutdown, migration activity scheduled.
- Online/remote support for testing and deploying updates/upgrade/patches released by OEM.

• Onsite support for replacement of faulty components at ST2 site (In case of ST2 next day replacement of faulty part is also acceptable. Some additional negotiation on SLA is possible for ST2 once the DR site is finalised).

1.4 Training

Minimum 4 Days OEM Instructor led Administrative training (with soft copy of training material) for minimum 3 number of IPR Employees at OEM's training centre preferably in Gujarat or at Mumbai. The travel, lodging and boarding cost of the IPR's employees for training will be borne by IPR.

The training will include the OEM provided training for proposed Hypervisor, SDS, Management software and other proposed software components.

2.0 Technical Specification

2.1 Technical Speciation for HCI Solution

Sr. No	Specification/feature	(O- Optional,	COMPLY	Remarks (Deviation
INO		M-	(Yes/No)	if any)
		Mandatory)		,,
1.	Proposed solution must be "Hyper Conversed Infrastructure (HCI)". The proposed HCI solution must be listed in the leader's quadrant of Gartner Magic quadrant for HCI at least once in last two years (2017 & 2018) or latest Gartner Magic quadrant for HCI solution.	M		
2.	Solution shall provide HCI software that allows delivery of enterprise class software defined storage services (SDS) using x86 server infrastructure without dependent on a separate SAN (Storage Area Network) and associated components such as SAN switch and HBAs.	M		
3.	Multi-hypervisor support would be preferred. Support for VMware and Microsoft Hyper-V is preferred.	0		

4.	The proposed HCI solution should be 100%	0	
	software defined without dependency on any		
	proprietary hardware card/devices.		
5.	The proposed solution must sustain failure of	М	
	one full node, one disk failure per node and		
	one network components failure across the		
	cluster without any data loss/unavailability.		
	The solution will be configure for RF-2		
	(Redundancy Factor -2) or FTR-1 (Fault to		
	tolerance ration- 1) and having additional one		
	nodes for recovery in case of one node failure.		
	** RF-2 : Two copies of data across the cluster		
	**RF-3: Three copies of data across the cluster		
6.	Software solution must have capability of VM	М	
	centric tuneable Redundancy Factor (RF-		
	2/FTR-1 and RF-3/FTR-2). Possibility to have		
	one click conversion from RF-2 to RF-3 is		
	preferable in the same cluster or in the		
	separate cluster. (This functionality should be		
	supported when the minimum number of		
	nodes for RF-3 criteria is satisfied in the HCI		
	cluster without any additional licensing cost to		
	IPR).		
	** RF-2/FTR-1 : Two copies of data across the		
	cluster		
	**RF-3/FTR-2: Three copies of data across the		
	cluster		
7.	IPR have specific requirement for E-mail	М	
	server which we are projecting as one VM on		
	the proposed solution, which required single		
	partition/LUN/Mount Point of 10 TB or higher		
	capacity. There should not be any limitation		
	of HCI software/hardware side on creating		
	such partitioning/mount point and running		
	our E-mail server (Zimbra).		
8.	The mentioned capacity for CPU Cores, RAM	M	
	and usable storage should be for workload of		
	IPR services/application only. The addition		
	resources required by proposed software		
	stake (including Hypervisor, SDS –		
	compression and de-duplication,		

	management and monitoring software) that should be factor additionally and provisioned into solution from day one. All bidder must have to share OEM published document and/or duly signed document from OEM for overhead consideration.	
9.	The proposed solution should not have any single point of failure for any critical component.	M
10.	The solution shall provide the capability to define and change storage policy per VM basis.	M
11.	The solution should support non-disruptive scale-up (Upgrade by inserting HDD in existing empty bays if available in proposed solution).	M
12.	The solution should support non-disruptive scale-out (Upgrade by inserting new HCI node) for augmenting storage capacity and/or computational power. The solution must be able to support different generation of Intel processor in same cluster for investment protection over the life of the proposed solution.	M
13.	Support at least 12 nodes per cluster in increment of one node, The solution must have capability to run at least 24 or more VMs per node (should not have any software limitation on number of VMs per node).	M
14.	Preferably support hardware of well-known OEM in case of future expansion within same cluster or in different cluster (hardware agnostic architecture).	0
15.	Preferably the system should support Intelligent data tiering, pinning of particular VM to flash tier, automatic intelligent VM placement based on the load.	0
16.	The solution should support checksum of data to ensure data integrity and to enable automatic detection and resolution of silent disk errors.	M
17.	The solution should capable for enterprise data services such as data de-duplication, compression, and erasure coding. This	0

	capability should be part of ALL-FLASH and/or HYBRID storage. Ability to enable/disable this			
	functionality per VM/Cluster basis.			
18.	The proposed solution must be capable to use	M		
	capacity tire storage either as NAS/SAN			
	storage outside HCI cluster. There is also			
	possibility to mount/access external storage			
	on the HCI cluster.			
	OR			
	The proposed HCI must support File Services			
	(NFS, CIFS & SMB) without use of 3rd party			
	tools or additional licences from day one.			
19.	The solution must have the capability to	М		
	replicate data across another HCI cluster and			
	data centre without addition licenses from			
	day one.			
20.	Preferable to have possibility to add	0		
	additional storage capacity by adding storage			
	intensive nodes in the same cluster.			
Нуре	ervisor			
21.	The proposed Hypervisor must be of bare	М		
	metal type and preferably also support			
	container based applications.			
22.	Support for heterogeneous guest OS -	М		
	Desktop and Server class OS for Windows and			
	Linux (support for Redhat, Centos, SuSE,			
	Ubuntu, Windows).			
23.	The proposed Hyper-Visor solution must be	M		
	there in the leader quadrant of latest Gartner			
	report.			
	OR			
	Proposed HCI solutions with their own hyper			
	visor matching all other criteria is also			
	acceptable.			
24.	The solution must have the capabilities like	М		
	Intelligent VM Placement (automatic based			
	on the available resources on the nodes), VM			
	affinity rules.			
25.	The Hypervisor solution must be capable to	М		
	hot add CPU cores, memory, storage and			
	virtual NICs to VM running on the cluster.			
	Proposed solution must support live migration			
	for planned maintenance and must support			
		1	1	i

	HA enabled virtual machines for high availability (for unplanned downtime).			
26.	Possibility to create snapshot or clone of VM from day one without additional software license. Possibility to backup of data using its own or third party tool.	М		
27.	Possibility to connect VMs to network and storage. Possibility to create standard and distributed switches from day one without any additional license cost.	М		
28.	Hypervisor shall have I/O prioritization (threshold) for virtual workloads to ensure business critical VM's are not affected due to congestion created by other VM's on the same host. Physical to VM conversion tool for physical to virtual migration.	0		
Man	agement Software		T	
29.	The proposed integrated system should include single unified management console for management and monitoring of entire solution at both sites ST1 and ST2. The management software that can handle management and monitor the health and status off all hardware and software resources of the given system. Should have support for multisite, scales with the cluster, and does not require separate hardware infrastructure to run it.	M		
30.	Solution should have capabilities of remote management feature, role-based security and authorisation.	М		
31.	Provision to apply software updates, create and manage virtual resources (virtual servers, virtual storage). Also support for integrated toolset for upgrade without any downtime. Alert of critical component failure along with power monitoring.	0		
32.	The software should allow users to manage and monitor the systems hardware, perform software upgrades.	0		
33.	The solution should support REST API for third party tools integration.	М		

34.	The solution must support back up of critical	М	
	virtual machine outside the cluster using		
	inbuilt or third-party tool, so that same can be		
	recovered in case of data loss. The		
	management software should have features		
	for rapid deployment of virtual machines by		
	having templating feature.		
35.	The solution should provide prebuilt and	M	
	configurable operational dashboard to		
	provide real-time insight into infrastructure		
	behaviour, future/upcoming problems, and		
	opportunities for efficiencies improvement.		
36.	The solution should provide analytic	М	
	capabilities (What- if scenarios) out of the box		
	to eliminate time consuming problem		
	resolution process through automated root		
	cause analysis.		
37.	The solution should provide capacity analytics	М	
	which can identify over-provisioned resources		
	so they can be right sized for most efficient		
	use of virtualised resources.		
38.	The solution should be capable to send	М	
	proactive smart alerts to avoid potential		
	downtime based on historical data and		
	trending.		
39.	In case, if proposed management tool	M	
	requires additional server node(s) outside		
	cluster, bidder is responsible to provide the		
	hardware and software (OS) for the same.		
Repl	ication and site recovery		
40.	The data replication functionality at Far-DR	M	
	site should be part of proposed solution and		
	can be used without any additional license		
	from day one for at-least 50 numbers of VMs.		
41.	The data replication functionality should have	M	
	ability to replicate both direction (DC-DR and		
	DR-DC). Should support at least one to one		
	replication strategy in both the direction.		
42.	The replication functionality must have VM	М	
	centric policy driven and capable to replicate		
	VM dependencies on the cluster. There must		
	be possibility to configure failover-failback		
	scenario using replicated data/snapshot. VM		

	centric configurable RPO up to 5 minutes is		
	desirable.		
43.	The Software should have a capability to	М	
	efficiently use the available network		
	bandwidth during data replication i.e.		
	compression, dedupe and incremental copy.		
44.	Bi-directional site recovery management	М	
	(failover-failback) and orchestration		
	components must be part of the offering from		
	day one. The solution must support migration		
	of VMs across bi-directional DR sites, so that		
	critical virtual machines can be recovered at		
	the time of disaster.		
45.	The replication management, monitoring, and	М	
	failover-failback management, monitoring		
	must be integral part of the proposed unified		
	management software for VM provisioning		
	and other management activities.		
46.	Solution should have component required for	М	
	non-disruptive testing of failover failback		
	functionality.		
47.	If any additional hardware/software (witness	M	
	node) is required to coordinate failover-		
	failback functionality, the hardware (1 U rack		
	mount server) and software should be		
	additionality to be supplied by the vendor. The		
	hardware supplied must have 5 years		
	compressive warranty.		
War	ranty and Support		
48.	5 years comprehensive onsite warranty with	M	
	support service. 24x7 support services, Eight		
	hours resolution including faulty part		
	replacement.		
49.	Preferable to have single RCM (Release	0	
	Centre Matrix): With proposed solution, there		
	should be single management window for		
	applying patches for HCI Software, patches for		
	hypervisor and firmware updates on the		
	underline hardware.		

2.2 HCI node Specification for ST1 (Primary Site)

ST1 with all nodes are healthy and running (usable capacity for IPR's workload):

100 or higher Cores, 1364GB of higher RAM, 24TB/28TB or higher storage, RF-2 compliance even after one node failure (two copies of data plus extra storage capability for rebuilding)

ST1 with one node failure and other node are healthy and running (usable capacity for IPR's workload):

75 or higher Cores, 1024 GB or higher RAM, 24TB/28TB or higher storage, RF-2 compliance (after rebuild two copies of data)

Sr. No	Specification/feature	(O- Optional , M- Mandatory)	COMPLY (Yes/No)	Remarks (Deviation if any)
1.	The proposed nodes should be from DELL, LENOVO, HPE, IBM, FUJITSU, HITACHI and CISCO (In case of appliances Nutanix/VxRail/SimpliVity/HyperFlex nodes shall also be accepted).	M		
2.	The HCI nodes must be certified by the OEM of the proposed hypervisor/software technology (i.e vSAN Ready nodes/Nutanix/vXRail/SimpliVity/HyperFlex certified appliances).	M		
3.	The proposed HCI solution at ST1 site should have minimum of usable 100 physical cores having 2.6 GHz or higher clock speed, Latest Intel Skylake Gold 6100 Series CPUs having 19 MB or higher L3 cache. Bidder has to consider the extra cores for any overhead to run HCI controller VM, hypervisor, replication or any other management components. OR In case, if bidder is proposing Gold 6100/5100 series CPU having lower clock speed and higher number of cores, cluster wide 260 GHz (2.6 GHz * 100 Cores) will also be acceptable.	M		
4.	The proposed HCI solution should have cluster wide 1364GB or higher usable RAM, DDR4 2666 MHz (RDIMM or LRDIMM) or higher.	М		

	Bidder has to consider the extra RAM for any		
	overhead to run HCl controller VM, hypervisor		
	or any other management components.		
5.	The proposed solution must consist of	М	
	minimum four numbers of HCI nodes (all four		
	nodes must be having compute and storage		
	resources equally distributed). All four nodes		
	with matching configuration and from the		
	same OEM is preferable.		
6.	The storage solution offered shall be either	M	
	Hybrid or All-flash. The cache tire must be		
	Solid State Drives (SSD) and capacity tire may		
	be ALL–FLASH or SAS HDDs (12 Gbps, 10K		
	RPM). In case of Hybrid storage the SSD: SAS		
	(cache: capacity) ratio must be of 10:90 or		
	higher capacity. All types of proposed storage		
	and cache drives must be enterprise grade		
	2.5", 12 Gbps connectivity and hot		
	pluggable/hot swappable.		
7.	The cache tire must have at-least two number	М	
	of SSD drives per node.		
	. 		
	In case single cache drive per node is offered,		
	failure of one cache drive should not		
	considered as node failure.		
	It must be write intensive or MIX, SLC or EMLC		
	type (TLC drives having matching endurance		
	and performance class are also acceptable)		
	having 12 Gbps SAS connectivity. Caching disk		
	should not be considered for usable data		
	capacity.		
	capacity.		
8.	Each node must have two number of M.2	М	
0.	BOOT/O.S drives with RAID 1 configuration.	141	
	Each drive must have 120 GB or higher		
	capacity. Preferably SAS drives but SATA is		
	also acceptable as O.S drive.		
9.	The vendor must supply 24 TB usable storage	M	
Э.	capacity across HCI cluster even after single	141	
	node failure and without considering de-		
	_		
	duplication and compression advantage. Any		
	other storage overhead required by HCI		

	C. L. I. C. DEG /ETD ()		l l
	Solution for RF2 (FTR -1) scenario should be		
	factor additionally. If the solution proposed		
	by vendor do not have support for		
	compression and deduplication on hybrid		
	storage has to provide 4TB extra storage		
	capacity (i.e. 28 TB usable storage instead of		
	24 TB in case of RF-2).		
10.	The offered solution should be a 19-inch rack	M	
	mountable unit and should be offered with		
	rack mount kits. The rack space occupied by		
	each node must be 2U or less. (The total rack		
	space required for the complete solution at		
	ST1 should be less than or equal to 12 U		
	including two ToR switches)		
11.	The nodes for proposed HCI Solution should	М	
	connect over 10 GBASE-T IP connectivity.		
	Minimum 2 x Dual Port 10G Ethernet (at least		
	4 ports of 10 G) per node and additionally one		
	or more 1Gbps dedicated out of band		
	management port must be provided. There		
	should not be any dependency on proprietary		
	or specialized interconnects.		
12.	The mentioned capacity for CPU Cores, RAM	М	
	and usable storage should be for workload of		
	IPR services/application only. The addition		
	resources required by proposed software		
	stake (including Hypervisor, SDS –		
	compression and de-duplication if 24Tb		
	usable storage is proposed , management		
	and monitoring software) that should be		
	factor additionally and provisioned into		
	solution from day one. All bidder must have to		
	share OEM published document and/or duly		
	signed document from OEM for overhead		
	consideration.		
13.	The proposed HCI nodes must have hot	М	
13.	Pluggable, high efficiency power supply with		
	1+1 configuration.		
14.	The proposed HCI nodes must have Hot	M	
14.	Pluggable, high speed cooling fans with 1+1	141	
	configuration.		
15.	Each server should be manageable remotely	M	
15.		171	
	through a GUI – include the access to the		

	console and remote media over network. Any		
	software licenses for this are to be provided.		
16	5 years comprehensive onsite warranty with	М	
	support service. 24x7 support services, eight		
	hours resolution including faulty part		
	replacement.		

2.3 HCI node Specification for ST2 (DR Site)

ST2 with all nodes are healthy and running (usable capacity for IPR's workload):

50 or higher usable Cores, 1024 GB of higher usable RAM, 21TB/23TB or higher usable storage (RF-2 compliance: two copies of data)

ST2 with one node failure and other nodes are healthy and running (usable capacity for IPR's workload):

32 or higher usable Cores, 512 GB or higher usable RAM, 14 TB or higher storage capacity.

Sr.	Specification/feature	(0-	COMPLY	Remarks (
No		Optional,	(Yes/No)	Deviation
		M-		if any)
		Mandatory)		
1.	The proposed nodes should be from DELL,	М		
	LENOVO, HPE, IBM, FUJITSU, HITACHI and			
	CISCO (In case of appliances			
	Nutanix/VxRail/SimpliVity/Cisco nodes shall			
	also be accepted).			
2.	The HCI nodes must be certified by the OEM	М		
	of the proposed hypervisor/software			
	technology (i.e vSAN Ready			
	nodes/Nutanix/vXRail/SimpliVity/HyperFlex			
	etc. certified appliances).			
3.	The proposed HCI solution at ST2 site should	М		
	have minimum of usable 50 physical cores			
	having 2.6 GHz or higher clock speed, Latest			
	Intel Skylake Gold 6100 Series CPUs having 19			
	MB or higher L3 cache. Bidder has to consider			
	the extra cores for any overhead to run HCI			

	controller VM, hypervisor, replication or any other management components.		
	OR		
	In case, if bidder is proposing other series of		
	CPU having higher/lower clock speed and		
	higher/lower number of cores, cluster wide		
	130 GHz (2.6 GHz * 50 Cores) will also be		
	acceptable.		
4.	The proposed HCI solution should have cluster	М	
	wide 1024 GB or higher RAM, DDR4 2666 MHz		
	(RDIMM or LRDIMM). Bidder has to consider		
	the extra RAM for any overhead to run HCI		
	controller VM, hypervisor or any other		
	management components. Please note that		
	512GB RAM should be available even after one full node failure.		
5.	The proposed solution must consist of	M	
٦.	minimum three numbers of HCI nodes (all	101	
	nodes must be having compute and storage		
	resources equally distributed). All nodes with		
	matching configuration and from the same		
	OEM is preferable. Each node having single		
	OLIVI IS PICICIANIC. Lacii Houe Having Single		
	CPU with higher configuration and meeting		
6.	CPU with higher configuration and meeting	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable.	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL-FLASH	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL-FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL-FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity)	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL-FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be	M	
6.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity	M	
	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable.		
7.	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL—FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable. The cache tire must have at-least two number	M	
	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable.		
	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable. The cache tire must have at-least two number of SSD drive per node.		
	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable. The cache tire must have at-least two number of SSD drive per node.		
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	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL—FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable. The cache tire must have at-least two number of SSD drive per node. In case single cache drive per node is offered, failure of a cache drive should not considered as full node failure.		
	CPU with higher configuration and meeting other criteria is also acceptable. The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL–FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable. The cache tire must have at-least two number of SSD drive per node.		

	and performance class are also acceptable). The SSD drive must be SAS having 12 Gbps interface. Caching disk should not be		
	considered for usable data capacity.		
8.	Each node must have two number of M.2 BOOT/O.S drives with RAID 1 configuration. Each drive must have 120 GB or higher capacity. Preferably SAS drives but SATA is	М	
	also acceptable.	D.4	
9.	The vendor must supply 21 TB usable storage capacity across HCl cluster without considering de-duplication and compression advantage. Any other storage overhead required by HCl Solution for RF2 (FTR -1)	M	
	scenario should be factor additionally. If the		
	solution proposed by vendor do not have		
	support for compression and deduplication		
	on hybrid storage has to provide 2TB extra		
	storage capacity (i.e. 23 TB usable storage		
10	instead of 21 TB in case of RF-2).		
10.	The offered solution should be a 19-inch rack mountable unit and should be offered with	M	
	rack mount kits. The rack space occupied by		
	each node must be 2U or less. (The total rack		
	space required for the complete solution at		
	ST1 should be less than or equal to 10U		
	including network ToR switch)		
11.	The nodes for proposed HCI Solution should	М	
	connect over 10 GBASE-T IP connectivity.		
	Minimum 4x10G Ethernet ports per node and		
	additionally one or more 1 Gbps dedicated out		
	of band management port must be provided.		
	There should not be any dependency on proprietary or specialized interconnects.		
12.	The mentioned capacity for CPU Cores, RAM	M	
	and usable storage should be for workload of		
	IPR services/application only. The addition		
	resources required by proposed software		
	stake (including Hypervisor, SDS –		
	compression and de-duplication if 24Tb		
	usable storage is proposed , management		
	and monitoring software) that should be		
	factor additionally and provisioned into		

	solution from day one. All bidder must have to share OEM published document and/or duly signed document from OEM for overhead consideration.		
13.	The proposed HCI nodes must have hot Pluggable, high efficiency power supply with 1+1 configuration.	M	
14.	The proposed HCI nodes must have Hot Pluggable, high speed cooling fans with 1+1 configuration.	M	
15.	5 years comprehensive onsite warranty with support service. 24x7 support services, eight hours resolution including faulty part replacement.	M	

2.4 Technical Specification of Backup software

Sr. No	Specification/feature	(O- Optional, M- Mandatory)	Comply (Yes/No)	Remarks (Deviation if any)
1.	The proposed solution should be in the leader quadrant at-least once in last three years of Gartner report for Data Centre Backup and Recovery Solutions.	M		
2.	Solution must support bidder proposed HCI hypervisor and additionally should support VMWare, Hyper-V and other leading virtualisation platforms.	M		
3.	Solution should support any type of storage as destination.	М		
4.	Solution should store backup files in self-sufficient containers and have no dependency on backup catalogue for recovery. Possibility to recover at individual file or folder.	М		
5.	Solution should provide changed block tracking mechanism for both VMWare, Hyper-V and the bidder proposed HCI hypervisor.	M		

6.	Solution should use totally agentless approach for backing up any virtual machine. The solution must have VM centric policy for automated backup.	M
7.	The backup should be independent of original VM and it should be capable to restore the VM in case original VM is corrupt or deleted.	М
8.	Solution should provide the full backup features in order to reduce backup and restore time including the bandwidth usage reduction. The solution must have the storage optimisation capabilities like deduplication and compression.	M
9.	Solution should provide the automatic backup verification technology which will guarantee the recoverability at VM, Guest OS, application, folder and file level.	M
10.	Solution must have an ability to instantly restore any type of guest OS files/data files from backup with no need to deploy agents in production servers.	M
11.	Solution should support scalability, real time data traffic analysis and central management console for multiple backup domains management.	M
12.	The licenses for backup software should be for unlimited number of VMs, unlimited data and for all the nodes supplied at ST1 (all CPU sockets of primary site).	М
13.	The solution must have web based, easy to use GUI for configuration of the backup policy and monitoring the progress.	0
14	The proposed backup solution must support latest encryption capabilities. Software should be able to extend the backup repository to a public cloud service provider.	M
15.	If proposed solution required additional server node outside cluster to run it, bidder is responsible to provide the hardware and software (OS) for the same. The node must be of 1U server grade	M

	hardware with 2x 10Gbps (10GBASE-T)		
	network connectivity. 5 years onsite		
	comprehensive support service.		
16.	OEM supported, 5 years support and	M	
	subscription service for proposed backup		
	and recovery solution.		

2.5 ToR Network switch

Sr. No	Specification/feature	(O- Optional, M- Mandatory)	Comply (Yes/No)	Remarks (Deviation if any)
1.	Two numbers of Top of the Rack (ToR) switches (Data Centre Switches) must be offered from leading OEM which must be listed as leader at least once in last three years the Gartner's reports for Data Centre Networking. OR From the same OEM of the proposed HCI nodes and which must be compatible to proposed HCI solution.	M		
2.	Each switch must have minimum 48 ports 10GBASE-T (10Gbps RJ45) with at least 6xQSFP+ (40GbE) ports. Must have support for dual stack IPV4 and IPV6.	M		
3.	Switch must be 1U - Rack mountable. Having redundant, hot swappable power supplies and fans with N+N redundancy. Both power supplies and fans must be populated	M		
4.	The switch should support staking with at least 4 switches. The stacking accessory required to connect two ToR switches (with redundancy) including stacking cables and additional stacking module if required must be supplied by the vendor. The staking connectivity must be of 40Gbps.	M		
5.	Routing/Switching capacity at least 1250 GbE.	М		

6.	The switch should support Throughput -	М	
	At least 710 MPPS. Routing table size –		
	15K entries (IPv4) at least, MAC address		
	table size -128000 entries at least.		
7.	Jumbo frames - frame sizes of up to 10,000	М	
	bytes on Gigabit Ethernet and 10 Gigabit		
	ports.		
8.	High-performance remote backup and	0	
	disaster-recovery services are enabled.		
9.	Facilitate centralized discovery,	М	
	monitoring, and secure management of		
	networking devices via SNMP v1, v2c, and		
	v3. Wire-speed traffic accounting and		
	monitoring via sFLOW.		
Data	Centre Optimization		
10.	VXLAN support for bridging and routing -	М	
	VXLAN Layer 2 gateway support. Support		
	for dynamic VXLAN configuration.		
11.	The switch should support Virtualization.	M	
	The switch should be SDN enabled.		
12.	Data Centre Bridging (DCB) protocols-	0	
	Provides support for IEEE 802.1Qbb		
	Priority Flow Control (PFC), Data Centre		
	Bridging Exchange (DCBX), IEEE 802.1Qaz		
	Enhanced Transmission Selection (ETS),		
	Explicit Congestion Notification (ECN) for		
	converged FCoE, iSCSI, and RoCE		
	environments		
13.	High-performance switching - Cut-through	M	
	and non-blocking architecture delivers low		
	latency (<3 microsecond) for very		
	demanding enterprise applications		
	d L3 services		
14.	IEEE 802.3x Flow Control.	М	
15.	Ethernet Link Aggregation - Provides IEEE	М	
	802.3ad Link Aggregation ; and support for		
	LACP,LACP Local Forwarding First, and		
	LACP Short-time provides a fast, resilient		
	environment that is ideal for the data		
	centre usage		
16.	Supports STP (IEEE 802.1D), Rapid STP	М	
	(RSTP, IEEE 802.1w), and Multiple STP		
	(MSTP, IEEE 802.1s).		

17.	VLAN support - support for 4,096 VLANs	М	
	based on the port, MAC address, IPv4		
	subnet, protocol, and guest VLAN; and		
	supports VLAN mapping.		
18.	IGMP support for IGMP	М	
	Snooping, Fast-Leave, and Group-Policy;		
	IPv6 IGMP Snooping provides L2		
	optimization of multicast traffic		
19.	DHCP management of large IP networks	М	
	and supports client and server; DHCP		
	Relay enables DHCP operation across		
	subnets.		
	DHCP support at L2 - full DHCP Snooping		
	support for DHCP Snooping Option 82,		
	DHCP Relay Option 82, DHCP Snooping		
	Trust, and DHCP Snooping Item Backup.		
20.	Provides routing of IPv4 at media speeds;	М	
	and supports static routes, RIP and RIPv2,		
	OSPF, BGP, and IS-IS.		
21.	MAC-based VLAN-Provides granular	М	
	control and security; and uses RADIUS to		
	map a MAC address/user to specific		
	VLANs.		
Secur			
22.	Provide IP Layer 3 filtering based on	М	
	source/destination IP address/subnet and		
	source/destination TCP/UDP port number.		
	Port security-Allows access only to		
	specified MAC addresses.		
23.	IEEE 802.1X and RADIUS network logins-	М	
	Controls port-based access for		
	authentication and accountability.		
24.	The switch should support L2 to L4 traffic	М	
	filtering and support global ACL, VLAN ACL,		
	port ACL and IPV6 ACL, Time based ACL.		
	anty and support		
25.	5 years OEM supported onsite warranty		
	and support services		

3. Terms & Conditions

3.1 General Terms and conditions

Vendor (successful bidder) shall conduct acceptance test of the supplied solution and demonstrate the functionality as per the specification. It is the responsibility of the vendor to resolve any issues including performance related issues before the project sign-off.

All equipment to be supplied must support to INDIAN power requirement.

All software licenses supplied under this project should be perpetual in nature. In case if device is replaced due to hardware fault/failure during the warranty and AMC period, the software licenses shall be valid on the replaced hardware at no extra cost to IPR.

It is the responsibility of the bidder to ensure that all the above elements (hardware & software) shall be offered as per the specifications and shall be configured together to provide an integrated solution. Any and all licenses required for this shall be quoted along with the offer.

Bidder should carefully consider all the clauses in the specifications and should ensure that their offer is complete in all respects at the time of submission. Complete technical documentation justifying the compliance should be enclosed along with their offer. Offer which are incomplete are liable to be considered noncompliant and rejected. **Partial solution from any bidder will not be acceptable and hence such bid will be rejected.**

Specifications of the major items have been provided in this document. In case any additional accessories software media/licenses are required to complete the configuration for full functionality and/or better manageability vendor should include such hardware accessories and related software elements or plug-ins to enterprise management software including the required licenses in their offer.

For all items in the list of deliverables offered by the vendor, the OEM's part number (in case of software the proposed version/edition of the software) should be clearly indicated. **Offer of items without clear specification of part number is not acceptable.** The part numbers & description of the items in the offer should match the part numbers & description of the items mentioned in the OEM's specification sheets.

All equipment/software supplied to IPR shall not have an "End of Support" earlier than 6 years from the date of submission of the bid.

All the installation and migration activities need to be carried out by certified engineer of SI in coordination with OEM (software stack provider).

The successful bidder must carry out Pre Delivery Survey of the site and submit a brief report (including project planning with schedule) to ensure smooth installation process within two weeks from the release of PO.

Technical compliance sheets with the schematic diagram must be submitted by the vendor, failing which the bid may be rejected.

The vendor must deliver a fully operational server virtualization solution integrating all the components listed in the technical specifications.

The vendor shall provide comprehensive on-site maintenance of the hardware, with back to back support from the OEM.

Details of peak power consumption and peak heat dissipation/output for the offered solution must be provided with the offer.

The vendor must provide all the necessary and sufficient length of cables, connectors, rack mount kits, and other components required for the offered solution.

The vendor must provide training to the IPR staff for general system administration of the installed solution. The successful conduct and conclusion of the acceptance test for the installed goods and equipment must be the responsibility of the bidder, and at the cost of the bidder.

If the HCI hardware components of DR site (ST2) to be shifted to any other location within INDIA during the warranty period, the vendor will be responsible to provide and continue the support under warranty period at the new location. Vendor will be responsible for dismantling the hardware, packaging at existing site and un-packaging, assembling, reconfiguration of hardware and software at new location. Cost of packaging material and transport will be borne by IPR. This service will be provided at least once during the warranty period without additional cost to IPR.

Vendor shall execute back to back support with all involved OEMs for the hardware as well as software for entire warranty period and submit a copy of such agreement to IPR after the PO is awarded and before the release of first payment.

3.2 CONTRACT EXECUTION SCHEDULE: The project completion schedule including delivery, installation, commissioning (one time implementation) and final acceptance should be done within 6 (six) months from the date of placement of purchase order.

Disclaimer: The abbreviation used for technical specifications have its usual connotations and any bidders having any doubt about those abbreviations, may get it clarified before

SECTION - C

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

submitting the bid. IPR will not be responsible for any confusion leading to wrong understanding and faulty bid submission by the bidder. Interpretation of abbreviation used in this tender documents as decided/provided by IPR representative will be final and binding.

Annexure- A

UAT (User Acceptance Test) criteria

The bidder has to demonstration following feature/capabilities to IPR IT staff as part of the UAT:-

- All material as per mentioned specification (Hardware and software with licensing valid for minimum 5 Years) against the PO; installed and configured at IPR's data centre.
- The vendor must demonstrate successful power up and configuration of all the hardware components of the solution as per the offer.
- The vendor must demonstrate successful setup of the management software and configuration of all components using the management software.
- The vendor must demonstrate successful creation of virtual machines.
- The vendor must demonstrate online (without reboot) addition of vCPUs to the VMs.
- The vendor must demonstrate successful allocation of storage from Primary storage system to the virtual infrastructure.
- Successfully carry out HA of VMs on running nodes without any DL/DU (Data Loss/Data Unavailability).
- Vendor has to demonstrate bellow mentioned features of proposed hyper Converged solution
 - Usable storage capacity as asked by IPR in RF-2 scenarios.
 - Deduplication and compression in hyper conversion if claimed by bidder.
 - HA of HCI solution by manually failing one node, two HDDs (each in different nodes) and network without and data loss/ Data unviability.
 - HA of VM even after node/HDD/Network failure.
 - Adding removing of nodes from HCI cluster without any downtime.
 - Recovery of VMs using snapshot.
 - Health status of nodes and VMs using management solution.
 - E-mail alerts and reports using management software.
 - Randomly selected features of hardware and software as mentioned in RFP document.
 - Data Replication and DR related functionality
 - Replication management with required RPO
 - Failover –failback scenario

SECTION - C

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

• Data backup outside cluster and recovery of data (VM level, file level) using proposed back up tool, Scheduled backup configuration and other functionality.

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

Annexure – B Documentation

- Successful bidder has to submit following documentation while handling over the project: -
- Installation manuals, which includes datasheet of all supplied products, instruction for handling, examination, preparation, installation and start-up of all systems.
- User manual, which includes operating instructions, including start up and shutdown procedure for all the devices.
- Escalation Matrix at successful bidder and at OEM.
- All required credential to IPR for logging and call directly with OEM using toll free number.
- All documents must be submitted in soft and hard copy to IPR.
- The IPR specific design documents and SOP (Standard Operating Procedure) to be submitted to IPR in colour printed copy. The cost associated to produce and print the documents shall bear by bidder.

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

Annexure C OEM Authorization letter

Subject: Authorization letter against tand maintenance of HYPER-CONVI solution at IPR			
Dear Sir,			
We, M/sbeing OEM forproduct/s),	(A	ddress of the	OEM) by virtue of
hereby authorize M/s their office at bidder) to submit quote, supply, insta of products quoted by them to meet	all and provide after	sales support s	(Address of services for our range
M/sscope of requirement as per the ten other support towards fulfilling benchmarking, acceptance criteria as be supplied and installed at IPR, BH/M/s	der mentioned abov the requirements nd product warranty AT Village and DR sit	e undertake to of installati services of the e by our autho	o provide technical & on, commissioning, e HCI components to prized representative
The undersigned is authorized understood that it is the responsible of IPR.	(Name of the OEM	l).we understo	od that, we as OEM
For M/s	(Name of the	OEM)	
Signature & company seal			
Name Designation			

Email

SECTION - C

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

Mobile No

Technical specifications for Tender Notice No. IPR/TN/PUR/TPT/ET/19-20/3 Dated 29/04/2019

Annexure - D

List of Services to be migrated to HCI

Following list of service are running on the physical machine and the successful bidder should be responsible to migrate to proposed HCI solution in coordination with IPR IT staff. Vendor is responsible to provide necessary support including tools required for migration.

Sr.	Service Name	Intranet/	O.S	List of services/software
No	F manil no many (Zimahara)	Public	ComtOC	
01	E-mail server (Zimbra)	Public	CentOS	
02	Webmail server (Zimbra)	Public	CentOS	
03	E-mail archival server(Zimbra)	Intranet	CentOS	
04	LDAP Server	Intranet	CentOS 7.0	
05	DHCP Server (Open source)	Intranet	CentOS 7.0	
06	Public DNS Server (BIND)	Public	CentOS 7.0	
07	Network management service (HPE IMC)	Intranet	Ms Windows 12	
08	Proxy Server(Squid)	Public	CentOS 7.0	
09	Document management server (Alfresco)	Public	RHEL 6.6	
10	Open LDAP server	Intranet	CentOS 7.0	
11	Intranet E-office server	Intranet	CentOS 7.0	
12	Tally server	Intranet	Ms Windows	
	•		12	
13	Audio-Video Server	Public	Ms Windows 12	
14	Authentication web management server (Auth server)	Intranet	CentOS 7.0	
15	CATIA license management server	Intranet	Ms Windows	
16	MATLAB license management	Intranet	Ms Windows	
	server		12	
17	PAST (In-house developed java	Intranet	Ms Windows	Java application server, oracle as
	and Oracle based application)		12	database
18	PASTA (In-house developed java	Public	Ms Windows	Java application server, oracle as
	and Oracle based application)		12	database
19	Library Server (File server + Web application)	Intranet	Ms Windows 12	
20	Institute web site (ONLINE)	Public	Cent OS 7.0	
21	E-office server	Public	Cent OS 7.0	
22	Recruitment Server	Public	Cent O.S 7.0	
23	Indico (Conference Management Server)	Public	RHEL 6.0	
24	Intranet DNS Server	Intranet	Cent OS 7.0	
25	E-cloud (file server)	Public	Cent OS 7.0	

	TERMS & CONDITIONS			
ITEM	Design and implementation of Hyper Converged Infrastructure (H	(CI) with Disaster		
DESCRIPTI				
ON	the tender document.			
SI. No.	PARTICULARS	REMARKS		
<u> </u>	Name of the Supplier			
II	IPR Enquity NO & Date	IPR/TN/PUR/TPT/ET/19- 20/3 DATED 29-04-2019		
III	Vendor Offer No & Date			
IV	Postal address			
V	Contact with STD code			
VI	Fax with STD code			
VII	Name of Contact person			
VIII	Mobile No.			
IX	e-mail ID			
X	Currency of offer/quotation	INR		
	SCANNED COPY OF THE BELOW MENTIONED DOCUMENTS	"YES" OR "NO"		
	NEED TO UPLOAD AT www.tenderwizard.com/DAE AT THE			
	TIME OF PARTICIPATION OF TENDER WITHIN THE PERIOD OF			
	SUBMISSION.			
1	Certificates:			
•	i) Registration Certificate if Any, with DGS&D/NSIC/MSME			
	ii) PAN (Permanent Account Number) Registration			
	iii) Certificates of Registration for Sales Tax/ VAT/ WCT or Service			
	Tax			
	iv) Authorization certificate/ Agency Agreement from Manufacturer (if			
	not manufacturer)			
	Commercial Terms for Quoted items (Please Provide			
	Commercial terms and conditions in the below form)			
2	Price Shall be firm and fixed through out the currency of contract, in			
	the event of placement of purchase order.			
3	Price Term for Local Supplier(Free Delivery/Ex Works/FOR			
	Destination/ Safe Door Delivery)			
4	Have you offered Packing and forwarding charges in the price bid (if			
	applicable)?			
5	Goods and Services Tax: Have you specified HSN / SAC Code for			
•	Goods and Services Tax in Price Bid?			
<u>6</u> 7	Have you offered Freight charges in the price bid? Have you offered Insurance charges in the price bid?			
	Delivery period (as per Sr. No. 31 Section-A of Form No.			
0				
	IPR_LP_ET_ 02.V5 (Terms and Conditions) attached with the			
	tender/enquiry) (Also refer document named			
	"Deferred_terms_IPR_LP_ET_02.V5" for amended delivery			
9	Iterms) Have you offered Installation and commissioning charges?			
10	Liquidated Damages:- as per Sr. No. 10 of Section B of Form No			
10	IPR-LP-ET-02.V5 (Terms and Conditions) attached with the			
	tender/enquiry			
	tonuoi/onquiry			

11	Terms of Payment:- as per Sr. No.35 (Mode of Payment) of Form	
''	No. IPR_LP_ET_ 02.V5 (Terms and Conditions) attached with the	
	tender/enquiry. (Also refer document named	
	"Deferred_terms_IPR_LP_ET_02.V5" for amended payment terms)	
12	Guaranty / Warranty:-as per Sr. No. 34 of Form No. IPR_LP_ET_	
	02.V5 (Terms and Conditions) attached with the tender/enquiry.	
	(Also refer document named	
	"Deferred_terms_IPR_LP_ET_02.V5" for amended delivery	
	terms)	
13	Validity of offer/quotation:- 120 days from the date of opening of	
	Part-I	
	QUESTIONNAIRE TO BE FILLED BY BIDDER IN AND SENT	
14	ALONG WITH OFFER DULY SIGNED	
14	In the event of a purchase order/contract vendor has to provide Security Deposit in the form of Bank Guarantee for 10% of contract/	
	order value 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 till final acceptance of the supplied goods at	
	IPR, wherever applicable shall be submitted.	
	in Try Whotever applicable chair be each mice in	
15	In the event of a purchase order/contract Performance Bank	
	Gurantee for 10% of the contract/order value 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 throughout	
	the guarantee period, wherever applicable shall be submitted.	
16	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.	
	J	
17	I/we have understood the General Conditions of all Contracts and	
	special conditions of contract governing supplies of plant and	
	machinery in the Form No.IPR_LP_ET_ 02.V5, included in the	
	General Conditions of all Contracts and special conditions of contract	
	governing of plant and machinery applicable to contracts placed by	
	the Institute for Plasma Research and the instructions to Tenderer	
	annexed to the invitation to tender Form and have thoroughly	
	examined the specification / drawing and / or pattern quoted or	
	referred to in the Schedule hereto and am/are fully aware of the	
	nature of the stores required any my/our offer is to supply stores	
	strictly in accordance with subject tender to the terms and conditions	
	stipulated in your above Form No. IPR_LP_ET_ 02.V5 and also	
	contained in the Purchase Order Communicating acceptance of this Tender.	
	or una render.	
18	Whether All Documents Related to tender Viewed?	
19	Vendor should upload the complete technical details (Tehnical	
	specifications with product data sheet	

20	In case of two part tender whether unpriced quotation has been uploaded (Failing which offer will not be considered for technical evaluation)	
21	Free Issue Material: 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.	

	Eligibility Criter	ria (Annexure-A)				
DESC RIPTI ON	DESC (DR) Solution for Server Virtualisation as per the specifications mentioned in the tender document.					
SI. No.	. PARTICULARS REMARKS					
I	Name of the Vendor					
<u>II</u>	IPR Enquity NO & Date	IPR/TN/PUR/TPT/ET/19-20/3 DATE	D 29-04-2019			
III	Vendor Offer No & Date					
Sr. No.	Criteria	Documents required to upload	Status of Documents (Uploaded/ Not- Uploaded in e- Tender Portal)			
1	The bidder must be an OEM or authorized partner/ service provider of the OEM or System Integrator (SI) of OEM.	If the bidder is an authorized partner/service provider of the OEM or System Integrator (SI) of OEM then the bidder should submit Letter of authorization from the OEM specific to this tender (clearly mentioning IPR tender number) as per the format given in the Annexure-C of technical document for the following: a) HCI Nodes b) HCI (SDS) c) Hypervisior d) Back up solution e) Network Switch				
2	The proposed OEM must be there in the leader quadrant in the latest report of Gartner Magic Quadrant for Integrated infrastructure. OR At least once in the leader quadrant of last two years (i.e. 2017 & 2018) in Gartner Magic Quadrant for Integrated infrastructure.	Bidder must submit copy of Gartner report showing its position in leader quadrant.				
3	The bidder must have office in Ahmedabad, Gandhinagar or Baroda.	Bidder must submit necessary documentary evidence supporting the same.				
4	The bidder must be a profit making organisation for the financial years 2016-2017 and 2017-2018.	Bidder must submit certified audited copies of their annual accounts (balance sheet, audit report for FY 2016-2017 and FY 2017-2018).				

5	Bidder should be registered company having valid and updated ISO 9001:9002 certification.	Bidder must submit copy of valid ISO certificate as documentary proof.	
6	The bidder must submit "Self-declaring certificate" in the following format. "It is certified that the firm M/shas not been blacklisted by any central/state Covt. Organisation, PSU, DGS&D/NICSI during last three years."	Bidder must submit an Undertaking on original letterhead duly signed by an authorised person.	
7	Bidder must have designed, supplied and deployed virtualisation solution anywhere in INDIA to atleast two customers in last three years from the date of publication of this tender.	Copy of unpriced purchase order/s from any two suppliers (with complete technical details) to be submitted as proof.	

Note:

The response to tender without submission of proof of above points will summarily be rejected without further communication

The bidder shall not be under a declaration of ineligibility for corrupt or fradulent practices or blacklisted with any of the Government agencies

Original documents shall be produced for verifications, if required.

BOM (Proposed Bill of Material)

Line Item	Description	Qty. Nos.	Make/Model/E dition/Version (with OEM part number)	Proposed Quantity
1	Four or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for primary site including 5 years onsite comprehensive warranty. For details refer technical specification.	cluster having 4 or higher number of nodes.		
2	Three or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for secondary/DR site including 5 years onsite comprehensive warranty. For details refer technical specification.	cluster having 3 or higher number of nodes.		
3	The required software licenses for four or higher nodes HCI cluster proposed for primary site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCI) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will include five years of software support subscription of all proposed software components. For details refer technical specification.	required software components with required number of licenses.		

4	The required software licenses for three or higher nodes HCI cluster proposed for secondary/DR site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCI) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will include five years of software support subscription of all proposed software components. For details refer technical specification.	Required software components with required number of licenses.
5	Two number of ToR network switches having 48x 10BASE-T and 6xQSFP+ connectivity. For details refer technical specification.	
6	Backup and recovery software solution for all proposed nodes of primary site (ST1). For details refer technical specification.	solution for primary site
7	One time implementation — Configuration and implementation of entire HCI solutions, migration of existing physical server to HCI infrastructure, configuration and implementation of failover-failback solution at ST1 and ST2 site. Integration of existing solution with LAN and WAN setup. Configuration and implementation of backup solution as per IPR's needs. (For details refer technical specification)	One.

	Minimum 4 Days OEM Instructor led administrative training for 3 persons.	One.	
9	Additional items (if any) required to meet IPR specifications		

HCI Technical Specifications

Sr. No	Specification/feature	(O- Optional ,	COMPLY	Remarks (
		M- Mandatory)	(YES/NO)	Deviation if any)
1	Proposed solution must be "Hyper Conversed Infrastructure (HCI)". The proposed HCI solution must be listed in the leader's quadrant of Gartner Magic quadrant for HCI at least once in last two years (2017 & 2018) or latest Gartner Magic quadrant for HCI solution.	M		
2	Solution shall provide HCI software that allows delivery of enterprise class software defined storage services (SDS) using x86 server infrastructure without dependent on a separate SAN (Storage Area Network) and associated components such as SAN switch and HBAs.	M		
3	Multi-hypervisor support would be preferred. Support for VMware and Microsoft Hyper-V is preferred.			
4	The proposed HCI solution should be 100% software defined without dependency on any proprietary hardware card/devices.			
5	The proposed solution must sustain failure of one full node, one disk failure per node and one network components failure across the cluster without any data loss/unavailability. The solution will be configure for RF-2 (Redundancy Factor -2) or FTR-1 (Fault to tolerance ration- 1) and having additional one nodes for recovery in case of one node failure. ** RF-2: Two copies of data across the cluster **RF-3: Three copies of data across the cluster	M		

6	Software solution must have capability of VM centric tuneable Redundancy Factor (RF-2/FTR-1 and RF-3/FTR-2). Possibility to have one click conversion from RF-2 to RF-3 is preferable in the same cluster or in the separate cluster. (This functionality should be supported when the minimum number of nodes for RF-3 criteria is satisfied in the HCI cluster without any additional licensing cost to IPR). ** RF-2/FTR-1: Two copies of data across the cluster **RF-3/FTR-2: Three copies of data across the cluster	М	
7	IPR have specific requirement for E-mail server which we are projecting as one VM on the proposed solution, which required single partition/LUN/Mount Point of 10 TB or higher capacity. There should not be any limitation of HCI software/hardware side on creating such partitioning/mount point and running our E-mail server (Zimbra).	М	
8	The mentioned capacity for CPU Cores, RAM and usable storage should be for workload of IPR services/application only. The addition resources required by proposed software stake (including Hypervisor, SDS — compression and deduplication, management and monitoring software) that should be factor additionally and provisioned into solution from day one. All bidder must have to share OEM published document and/or duly signed document from OEM for overhead consideration.	M	
9	The proposed solution should not have any single point of failure for any critical component.		
10	The solution shall provide the capability to define and change storage policy per VM basis.		

11	The solution should support non- disruptive scale-up (Upgrade by inserting HDD in existing empty bays if available in proposed solution).	M	
	The solution should support non-disruptive scale-out (Upgrade by inserting new HCI node) for augmenting storage capacity and/or computational power. The solution must be able to support different generation of Intel processor in same cluster for investment protection over the life of the proposed solution.	М	
	Support at least 12 nodes per cluster in increment of one node, The solution must have capability to run at least 24 or more VMs per node (should not have any software limitation on number of VMs per node).	М	
	Preferably support hardware of well-known OEM in case of future expansion within same cluster or in different cluster (hardware agnostic architecture).		
15	Preferably the system should support Intelligent data tiering, pinning of particular VM to flash tier, automatic intelligent VM placement based on the load.	0	
16	The solution should support checksum of data to ensure data integrity and to enable automatic detection and resolution of silent disk errors.		
	The solution should capable for enterprise data services such as data de-duplication, compression, and erasure coding. This capability should be part of ALL-FLASH and/or HYBRID storage. Ability to enable/disable this functionality per VM/Cluster basis.	o	

18	The proposed solution must be capable to use capacity tire storage either as NAS/SAN storage outside HCI cluster. There is also possibility to mount/access external storage on the HCI cluster. OR The proposed HCI must support File Services (NFS, CIFS & SMB) without use of 3rd party tools or additional licences from day one.	M	
	The solution must have the capability to replicate data across another HCI cluster and data centre without addition licenses from day one.		
20	Preferable to have possibility to add additional storage capacity by adding storage intensive nodes in the same cluster.	0	
Hypervisor			
	The proposed Hypervisor must be of bare metal type and preferably also support container based applications.		
22	Support for heterogeneous guest OS - Desktop and Server class OS for Windows and Linux (support for Redhat, Centos, SuSE, Ubuntu, Windows).		
23	The proposed Hyper-Visor solution must be there in the leader quadrant of latest Gartner report. OR Proposed HCI solutions with their own hyper visor matching all other criteria is also acceptable.	М	
	The solution must have the capabilities like Intelligent VM Placement (automatic based on the available resources on the nodes), VM affinity rules.		

25	The Hypervisor solution must be capable to hot add CPU cores, memory, storage and virtual NICs to VM running on the cluster. Proposed solution must support live migration for planned maintenance and must support HA enabled virtual machines for high availability (for	М	
	machines for high availability (for unplanned downtime). Possibility to create snapshot or clone of VM from day one without additional		
26	software license. Possibility to backup of data using its own or third party tool. Possibility to connect VMs to network and	M	
27	storage. Possibility to create standard and distributed switches from day one without any additional license cost.		
28	Hypervisor shall have I/O prioritization (threshold) for virtual workloads to ensure business critical VM's are not affected due to congestion created by other VM's on the same host. Physical to VM conversion tool for physical to virtual migration.	o	
Manageme	ent Software The proposed integrated system should		
	include single unified management console for management and monitoring of entire solution at both sites ST1 and ST2. The management software that can handle management and monitor the health and status off all hardware and software resources of the given system. Should have support for multisite, scales with the cluster, and does not require separate hardware infrastructure to run it.	М	
	Solution should have capabilities of remote management feature, role-based security and authorisation.	М	

31	Provision to apply software updates, create and manage virtual resources (virtual servers, virtual storage). Also support for integrated toolset for upgrade without any downtime. Alert of critical component failure along with power monitoring.	0	
32	The software should allow users to manage and monitor the systems hardware, perform software upgrades.	Ο	
33	The solution should support REST API for third party tools integration.	М	
34	The solution must support back up of critical virtual machine outside the cluster using inbuilt or third-party tool, so that	M	
35	The solution should provide prebuilt and configurable operational dashboard to provide real-time insight into infrastructure behaviour, future/upcoming problems, and opportunities for efficiencies improvement.		
36	The solution should provide analytic capabilities (What- if scenarios) out of the box to eliminate time consuming problem resolution process through automated root cause analysis.	M	
37	The solution should provide capacity analytics which can identify over-provisioned resources so they can be right sized for most efficient use of virtualised resources.	M	
38	The solution should be capable to send proactive smart alerts to avoid potential downtime based on historical data and trending.	М	
	In case, if proposed management tool requires additional server node(s) outside cluster, bidder is responsible to provide the hardware and software (OS) for the same.	M	

	The data replication functionality at Far-DR site should be part of proposed solution and can be used without any additional license from day one for at-least 50 numbers of VMs. The data replication functionality should	М	
41	have ability to replicate both direction (DC DR and DR-DC). Should support at least one to one replication strategy in both the direction.	М	
42	The replication functionality must have VM centric policy driven and capable to replicate VM dependencies on the cluster. There must be possibility to configure failover-failback scenario using replicated data/snapshot. VM centric configurable RPO up to 5 minutes is desirable.	М	
43	The Software should have a capability to efficiently use the available network bandwidth during data replication i.e. compression, dedupe and incremental copy.	М	
44	Bi-directional site recovery management (failover-failback) and orchestration components must be part of the offering from day one. The solution must support migration of VMs across bi-directional DR sites, so that critical virtual machines can be recovered at the time of disaster.	М	
45	The replication management, monitoring, and failover-failback management, monitoring must be integral part of the proposed unified management software for VM provisioning and other management activities.		
	Solution should have component required for non-disruptive testing of failover failback functionality.		

If any additional hardware/software (witness node) is required to coordinate failover-failback functionality, the hardware (1 U rack mount server) and software should be additionality to be	М
supplied by the vendor. The hardware	
supplied must have 5 years compressive warranty.	
Warranty and Support	
5 years comprehensive onsite warranty with support service. 24x7 support 48 services, Eight hours resolution including faulty part replacement.	
Preferable to have single RCM (Release Centre Matrix): With proposed solution, there should be single management window for applying patches for HCI Software, patches for hypervisor and firmware updates on the underline hardware.	o

ST-1 Nodes Specifications

Sr. No	Specification/feature	(O- Optional , M- Mandatory)	COMPLY (Yes/No)	Remarks (Deviation if any)
1	The proposed nodes should be from DELL, LENOVO, HPE, IBM, FUJITSU, HITACHI and CISCO (In case of appliances Nutanix/VxRail/SimpliVity/HyperFlex nodes shall also be accepted).		(Tes/NO)	Deviation if any)
2	The HCI nodes must be certified by the OEM of the proposed hypervisor/software technology (i.e vSAN Ready nodes/Nutanix/vXRail/SimpliVity/HyperFl ex certified appliances).			
3	The proposed HCI solution at ST1 site should have minimum of usable 100 physical cores having 2.6 GHz or higher clock speed, Latest Intel Skylake Gold 6100 Series CPUs having 19 MB or higher L3 cache. Bidder has to consider the extra cores for any overhead to run HCI controller VM, hypervisor, replication or any other management components. OR In case, if bidder is proposing Gold 6100/5100 series CPU having lower clock speed and higher number of cores, cluster wide 260 GHz (2.6 GHz * 100 Cores) will also be acceptable.	M		
4	The proposed HCI solution should have cluster wide 1364GB or higher usable RAM, DDR4 2666 MHz (RDIMM or LRDIMM) or higher. Bidder has to consider the extra RAM for any overhead to run HCI controller VM, hypervisor or any other management components.	M		

The proposed solution must consist of minimum four numbers of HCI nodes (all four nodes must be having compute and storage resources equally distributed). All four nodes with matching configuration and from the same OEM is preferable.	М	
The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) and capacity tire may be ALL—FLASH or SAS HDDs (12 Gbps, 10K RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher capacity. All types of proposed storage and cache drives must be enterprise grade 2.5", 12 Gbps connectivity and hot pluggable/hot swappable.	M	
The cache tire must have at-least two number of SSD drives per node. In case single cache drive per node is offered, failure of one cache drive should not considered as node failure. It must be 7 write intensive or MIX, SLC or EMLC type (TLC drives having matching endurance and performance class are also acceptable) having 12 Gbps SAS connectivity. Caching disk should not be considered for usable data capacity.	M	
Each node must have two number of M.2 BOOT/O.S drives with RAID 1 configuration. Each drive must have 120 GB or higher capacity. Preferably SAS drives but SATA is also acceptable as O.S drive.	М	

The vendor must supply 24 TB usable storage capacity across HCI cluster even after single node failure and without considering de-duplication and compression advantage. Any other storage overhead required by HCI 9 Solution for RF2 (FTR -1) scenario should be factor additionally. If the solution proposed by vendor do not have support for compression and deduplication on hybrid storage has to provide 4TB extra storage capacity (i.e. 28 TB usable storage instead of 24 TB in case of RF-2).	M	
The offered solution should be a 19-inch rack mountable unit and should be offered with rack mount kits. The rack space occupied by each node must be 2U or less. (The total rack space required for the complete solution at ST1 should be less than or equal to 12 U including two ToR switches)	M	
The nodes for proposed HCI Solution should connect over 10 GBASE-T IP connectivity. Minimum 2 x Dual Port 10G Ethernet (at least 4 ports of 10 G) per node and additionally one or more 1Gbps dedicated out of band management port must be provided. There should not be any dependency on proprietary or specialized interconnects.	М	

12	The mentioned capacity for CPU Cores, RAM and usable storage should be for workload of IPR services/application only. The addition resources required by proposed software stake (including Hypervisor, SDS – compression and deduplication if 24Tb usable storage is proposed, management and monitoring software) that should be factor additionally and provisioned into solution from day one. All bidder must have to share OEM published document and/or duly signed document from OEM for overhead consideration.	M	
13	The proposed HCI nodes must have hot Pluggable, high efficiency power supply with 1+1 configuration.		
14	The proposed HCI nodes must have Hot Pluggable, high speed cooling fans with 1+1 configuration.		
15	Each server should be manageable remotely through a GUI — include the access to the console and remote media over network. Any software licenses for this are to be provided.	M	
16	5 years comprehensive onsite warranty with support service. 24x7 support services, eight hours resolution including faulty part replacement.	M	

ST-2 Nodes Specifications

Sr. No	Specification/feature	(O- Optional , M- Mandatory)	COMPLY (Yes/No)	Remarks (Deviation if any)
1	The proposed nodes should be from DELL, LENOVO, HPE, IBM, FUJITSU, HITACHI and CISCO (In case of appliances Nutanix/VxRail/SimpliVity/Cisco nodes shall also be accepted).	М		
2	The HCI nodes must be certified by the OEM of the proposed hypervisor/software technology (i.e vSAN Ready nodes/Nutanix/vXRail/SimpliVity/HyperFle x etc. certified appliances).			
3	The proposed HCI solution at ST2 site should have minimum of usable 50 physical cores having 2.6 GHz or higher clock speed, Latest Intel Skylake Gold 6100 Series CPUs having 19 MB or higher L3 cache. Bidder has to consider the extra cores for any overhead to run HCI controller VM, hypervisor, replication or any other management components. OR In case, if bidder is proposing other series of CPU having higher/lower clock speed and higher/lower number of cores, cluster wide 130 GHz (2.6 GHz * 50 Cores) will also be acceptable.	M		

The proposed HCI solution should have cluster wide 1024 GB or higher RAM, DDR4 2666 MHz (RDIMM or LRDIMM). Bidder has to consider the extra RAM for any overhead to run HCI controller VM, hypervisor or any other management components. Please note that 512GB RAM should be available even after one full node failure.	M
The proposed solution must consist of minimum three numbers of HCI nodes (all nodes must be having compute and storage resources equally distributed). All nodes with matching configuration and from the same OEM is preferable. Each node having single CPU with higher configuration and meeting other criteria is also acceptable.	M
The storage solution offered shall be either Hybrid or All-flash. The cache tire must be Solid State Drives (SSD) having 12 Gbps, SAS interface and capacity tire may be ALL-FLASH or SAS HDDs (12 Gbps, 10K 6 RPM). In case of Hybrid storage the SSD: SAS (cache: capacity) ratio must be of 10:90 or higher. All types of proposed storage and cache drives must be enterprise grade 2.5",12 Gbps connectivity and hot pluggable/hot swappable.	M
The cache tire must have at-least two number of SSD drive per node. In case single cache drive per node is offered, failure of a cache drive should not considered as full node failure. It must be write intensive or MIX, SLC or EMLC type (TLC drives having matching endurance and performance class are also acceptable). The SSD drive must be SAS having 12 Gbps interface. Caching disk should not be considered for usable data capacity.	M

8	Each node must have two number of M.2 BOOT/O.S drives with RAID 1 configuration. Each drive must have 120 GB or higher capacity. Preferably SAS drives but SATA is also acceptable.	M	
9	The vendor must supply 21 TB usable storage capacity across HCI cluster without considering de-duplication and compression advantage. Any other storage overhead required by HCI Solution for RF2 (FTR -1) scenario should be factor additionally. If the solution proposed by vendor do not have support for compression and deduplication on hybrid storage has to provide 2TB extra storage capacity (i.e. 23 TB usable storage instead of 21 TB in case of RF-2).	M	
10	The offered solution should be a 19-inch rack mountable unit and should be offered with rack mount kits. The rack space occupied by each node must be 2U or less. (The total rack space required for the complete solution at ST1 should be less than or equal to 10U including network ToR switch)	М	
11	The nodes for proposed HCI Solution should connect over 10 GBASE-T IP connectivity. Minimum 4x10G Ethernet ports per node and additionally one or more 1 Gbps dedicated out of band management port must be provided. There should not be any dependency on proprietary or specialized interconnects.	М	

12	The mentioned capacity for CPU Cores, RAM and usable storage should be for workload of IPR services/application only. The addition resources required by proposed software stake (including Hypervisor, SDS – compression and deduplication if 24Tb usable storage is proposed, management and monitoring software) that should be factor additionally and provisioned into solution from day one. All bidder must have to share OEM published document and/or duly signed document from OEM for overhead consideration.	M	
13	The proposed HCI nodes must have hot Pluggable, high efficiency power supply with 1+1 configuration.		
14	The proposed HCI nodes must have Hot Pluggable, high speed cooling fans with 1+1 configuration.		
15	5 years comprehensive onsite warranty with support service. 24x7 support services, eight hours resolution including faulty part replacement.	M	

ToR Network switch Specifications

Sr. No	Specification/feature	(O- Optional , M- Mandatory)	Comply (Yes/No)	Remarks (Deviation if any)
1	Two numbers of Top of the Rack (ToR) switches (Data Centre Switches) must be offered from leading OEM which must be listed as leader at least once in last three years the Gartner's reports for Data Centre Networking. OR From the same OEM of the proposed HCI nodes and which must be compatible to proposed HCI solution.	M		
2	Each switch must have minimum 48 ports 10GBASE-T (10Gbps RJ45) with at least 6xQSFP+ (40GbE) ports. Must have support for dual stack IPV4 and IPV6.	M		
3	Switch must be 1U - Rack mountable. Having redundant, hot swappable power supplies and fans with N+N redundancy. Both power supplies and fans must be populated	М		
4	The switch should support staking with at least 4 switches. The stacking accessory required to connect two ToR switches (with redundancy) including stacking cables and additional stacking module if required must be supplied by the vendor. The staking connectivity must be of 40Gbps.	M		
5	Routing/Switching capacity at least 1250 GbE.	М		
6	The switch should support Throughput –At least 710 MPPS. Routing table size – 15K entries (IPv4) at least, MAC address table size -128000 entries at least.	М		
7	Jumbo frames - frame sizes of up to 10,000 bytes on Gigabit Ethernet and 10 Gigabit ports.	M		
8	High-performance remote backup and disaster-recovery services are enabled.	0		

9 Data C	Facilitate centralized discovery, monitoring, and secure management of networking devices via SNMP v1, v2c, and v3. Wire-speed traffic accounting and monitoring via sFLOW.	M	
	VXLAN support for bridging and routing - VXLAN Layer 2 gateway support. Support for dynamic VXLAN configuration.	М	
11	The switch should support Virtualization. The switch should be SDN enabled.	М	
12	Data Centre Bridging (DCB) protocols-Provides support for IEEE 802.1Qbb Priority Flow Control (PFC), Data Centre Bridging Exchange (DCBX), IEEE 802.1Qaz Enhanced Transmission Selection (ETS), Explicit Congestion Notification (ECN) for converged FCoE, iSCSI, and RoCE environments	0	
13	High-performance switching - Cut-through and non-blocking architecture delivers low latency (<3 microsecond) for very demanding enterprise applications	M	
	L3 services		
14	IEEE 802.3x Flow Control.	М	
15	Ethernet Link Aggregation - Provides IEEE 802.3ad Link Aggregation ; and support for LACP,LACP Local Forwarding First, and LACP Short-time provides a fast, resilient environment that is ideal for the data centre usage	М	
16	Supports STP (IEEE 802.1D), Rapid STP (RSTP, IEEE 802.1w), and Multiple STP (MSTP, IEEE 802.1s).	М	
17	VLAN support - support for 4,096 VLANs based on the port, MAC address, IPv4 subnet, protocol, and guest VLAN; and supports VLAN mapping.		
18	IGMP support- support for IGMP Snooping, Fast- Leave, and Group-Policy; IPv6 IGMP Snooping provides L2 optimization of multicast traffic		

DHCP management of large IP networks and	
supports client and server; DHCP Relay enables	
DHCP operation across subnets.	
19 DHCP support at L2 - full DHCP Snooping support N	VI
for DHCP Snooping Option 82, DHCP Relay Option	
82, DHCP Snooping Trust, and DHCP Snooping	
Item Backup. Provides routing of IPv4 at media speeds; and	
-	
20 supports static routes, RIP and RIPv2, OSPF, BGP, N	VI
and IS-IS.	
MAC-based VLAN-Provides granular control and	
21 security; and uses RADIUS to map a MAC N	VI
address/user to specific VLANs.	
Security	
Provide IP Layer 3 filtering based on	
source/destination IP address/subnet and	
22 source/destination TCP/UDP port number. Port N	VI
security-Allows access only to specified MAC	
addresses.	
IEEE 802.1X and RADIUS network logins-Controls	
23 port-based access for authentication and N	VI
accountability.	
The switch should support L2 to L4 traffic filtering	
24 and support global ACL, VLAN ACL, port ACL and N	VI
IPV6 ACL, Time based ACL.	
Warranty and support	
5 years OEM supported onsite warranty and support services	

Backup software Specifications

Sr. No	Specification/feature	(O- Optional ,	Comply	Remarks
		M- Mandatory)	(Yes/No)	(Deviation if any)
	The proposed solution should be in the			
1	leader quadrant at-least once in last three	M		
	years of Gartner report for Data Centre			
	Backup and Recovery Solutions.			
	Solution must support bidder proposed HCI			
2	hypervisor and additionally should support	М		
2	VMWare, Hyper-V and other leading			
	virtualisation platforms.			
3	Solution should support any type of storage	М		
<i>-</i>	as destination.	141		
	Solution should store backup files in self-			
	sufficient containers and have no			
4	dependency on backup catalogue for	М		
	recovery. Possibility to recover at individual			
	file or folder.			
	Solution should provide changed block			
5	tracking mechanism for both VMWare,	М		
3	Hyper-V and the bidder proposed HCI	IVI		
	hypervisor.			
	Solution should use totally agentless			
6	approach for backing up any virtual	М		
O	machine. The solution must have VM centric	IVI		
	policy for automated backup.			
	The backup should be independent of			
7	original VM and it should be capable to	М		
,	restore the VM in case original VM is corrupt	IVI		
	or deleted.			
	Solution should provide the full backup			
	features in order to reduce backup and			
0	restore time including the bandwidth usage	M		
8	reduction. The solution must have the	IVI		
	storage optimisation capabilities like			
	deduplication and compression.			
	Solution should provide the automatic			
	backup verification technology which will			
9	guarantee the recoverability at VM, Guest	IV/I		
	OS, application, folder and file level.			

10	Solution must have an ability to instantly restore any type of guest OS files/data files from backup with no need to deploy agents in production servers.	M	
11	Solution should support scalability, real time data traffic analysis and central management console for multiple backup domains management.	M	
12	The licenses for backup software should be for unlimited number of VMs, unlimited data and for all the nodes supplied at ST1 (all CPU sockets of primary site).	M	
13	The solution must have web based, easy to use GUI for configuration of the backup policy and monitoring the progress.		
14	The proposed backup solution must support latest encryption capabilities. Software should be able to extend the backup repository to a public cloud service provider.	M	
15	If proposed solution required additional server node outside cluster to run it, bidder is responsible to provide the hardware and software (OS) for the same. The node must be of 1U server grade hardware with 2x 10Gbps (10GBASE-T) network connectivity. 5 years onsite comprehensive support service.	М	
16	OEM supported, 5 years support and subscription service for proposed backup and recovery solution.		

Institute for Plasma Research

(An Aided Institute under Dept. of Atomic Energy) Bhat, Gandhinagar-382428, Gujarat, INDIA.

IPR Enquiry NO & Date : IPR/TN/PUR/TPT/ET/19-20/3 DATED 29-04-2019

From

NAME OF THE CONTRACTOR:

Offer no & date:

Sl.No	Item Description	Tendered Unit of Rate in INR Packing and Forwarding Freight Charges Per Unit						Insurance per unit						
211110	2000-2000-	Quantity	Measure	HSN Code	Basic Unit	Discount	Basic Unit rate	(in %)	Amount	(in %)	Amount	(in %)	Amount	Remarks
			ment	(*1)	Rate	(in amount)	after discount	Only		Only		Only		
	Four or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for primary site including 5 years onsite comprehensive warranty as per the specifications mentioned in the tender document.	1	Set				0.00		0.00		0.00		0.00	
	Three or higher nodes HCI cluster with required type and capacity of direct attached storage with accessories for secondary site including 5 years onsite comprehensive warranty as per the specifications mentioned in the tender document.	1	Set				0.00		0.00		0.00		0.00	
	The required software licenses for four or higher nodes HCI cluster proposed for primary site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCI) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will also include five years of software support subscription of all proposed software components as per the specifications mentioned in the tender document.	1	Set				0.00		0.00		0.00		0.00	
	The required software licenses for three or higher nodes HCl cluster proposed for Secondary/DR site. This will include the license cost of hypervisor, Software Defined Storage (SDS/HCl) software, Unified Management software, software licenses for replication and fail-over/fail-back (DR solution). This will also include five years of software support subscription of all proposed software componentsas per the specifications mentioned in the tender document.	1	Set				0.00		0.00		0.00		0.00	
	ToR network switches having 48 ports 10GBASE-T (10 Gbps RJ45) with at least 6 x QSFP+ (40GbE) ports, including 5 years onsite comprehensive warrantyas per the specifications mentioned in the tender document.	2	Nos.				0.00		0.00		0.00		0.00	

6	Backup and recovery software solution for all proposed nodes for primary site as per	1	Set		0.00	0.00	0.00	0.00	
	the specifications mentioned in the tender document.								
7	One time implementation cost as per IPR's requirements and also as per the specifications mentioned in the tender document.	1	Lumpsum		0.00	0.00	0.00	0.00	
8	Minimum 4 Days OEM instructor lead administrative training for 3 persons as per the specifications mentioned in the tender document.	1	Lumpsum		0.00	0.00	0.00	0.00	
9	Additional item (if any)				0.00	0.00	0.00	0.00	
а	Additional item				0.00	0.00	0.00	0.00	
b	Additional item				0.00	0.00	0.00	0.00	
С	Additional item				0.00	0.00	0.00	0.00	
d	Additional item				0.00	0.00	0.00	0.00	
е	Additional item				0.00	0.00	0.00	0.00	

Place of delivery IPR Gandhinagar

NOTES:

- (a) If freight is not shown seperately it will be treated as "FREE DELIVERY" (applicable for INR Quote)
- (b) Detailed specifications and scope of work are as per Attached Annexure
- (c) If the rate cells are left blank, it will be treates as "0" (ZERO)
- (e) Kindly enable the Macros if you receive the "Security Warning" message. (Click on options in "Security Warning" and select "Enable this content"

IMPORTANT NOTES: 1) Custom Duty Exemption certificate will not be issued to any bidder under any circumstances.

- 2) Prices in this bid format alone are acceptable
- 3) GST (IGST, CGST, SGST or any form) should not be included in the basic cost (Unit Rate Column) for either goods or services
- 4) Evaluated total cost on the basis of bid prices will be calculated by Purchaser after bid opening.
- (*1) HSN/SAC Code: For indigenous goods/services, to be filled by the bidder
- 1) QUOTATIONS ARE INVITED IN INDIAN CURRENCY ONLY.
- 2) QUOTATIONS RECEIVED OTHER THAN "INR" QUOTE SHALL SUMMARILY BE REJECTED.

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

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

Ref: Tender Notice No.IPR/TN/PUR/TPT/ET/19-20/3 dated 29/04/2019

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 Part-II (Price) 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.
- I/We are also uploaded all the leaflets/catalogue, etc. pertaining to the stores offered.

Yours faithfully Stamp and Signature of the Tenderer