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

**Notice Inviting Tender
(NIT)**

निविदा सूचना TENDER NOTICE NO: IPR/TN/PUR/TPT/ET/21-22/016
दिनांकित DATED 18-10-2021

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

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

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

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

Encl: as above.

निविदा सूचना TENDER NOTICE NO: IPR/TN/PUR/TPT/ET/21-22/016
दिनांकित DATED 18-10-2021

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

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

Work/Item Description	Supply, installation, configuration, commissioning and maintenance of scalable Software-defined storage (SDS) solution (1.7 PB usable capacity) as per the detailed specifications mentioned in the tender documents.
Tender Fee	Not Applicable
Earnest Money Deposit (EMD)	Not Applicable. In place of EMD, vendor should upload sealed and signed “Bid Security Declaration” as per ANNEXURE-V
Publishing Date	20-10-2021 at 10:00 Hrs.
Document Download / Sale Start Date	20-10-2021 at 10:00 Hrs.
Seek Clarification Start Date	20-10-2021 at 10:00 Hrs.
Seek Clarification End Date	08-11-2021 by 17:00 Hrs.
Pre-bid Meeting Date	15-11-2021 at 10:30 Hrs
Response to Clarification by IPR	26-11-2021 by 17.00 Hrs
Bid Submission Start Date	27-11-2021 at 10.00 Hrs
Bid Submission Closing Date	14-12-2021 at 13.00 Hrs
भाग-I के ऑनलाइन खोलने का समय और तिथि (तकनीकी बोली) Time and Date of online Opening of PART-I (Technical Bid)	15-12-2021 at 14.00 Hrs
भाग-II के ऑनलाइन खोलने का समय और तिथि (मूल्य बोली) Time and Date of online Opening of PART-II (Price Bid)	Will be declared later on

Pre-bid meeting with the vendors will be held through **Video Conference** on **15/11/2021 10:30 Hrs onwards** after receipt of pre-bid queries. The interested vendors are required to register themselves for participation in the pre-bid meeting through the following link on or before: **10/11/2021**

<https://forms.gle/Ph9Fj1v1ob32GWct8>

The web link to join the scheduled pre-bid meeting through Video Conference along with password will be shared with the **registered (for pre-bid meeting participation) vendors only** by **11/11/2021**. If any registered vendor had not received the link to join the video Conference they may contact the Tender Inviting officer @ nodalofficer.et@ipr.res.in

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

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

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

Instructions for Online Bid Submission

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

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

REGISTRATION

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

SEARCHING FOR TENDER DOCUMENTS

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

PREPARATION OF BIDS

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

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

SUBMISSION OF BIDS

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

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

ASSISTANCE TO BIDDERS

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

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TWO-PART TENDER SECTION – A

Invitation to Tender and Tendering Conditions

1.0 INVITATION TO TENDER

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

2.0 MANNER AND METHOD FOR SUBMISSION OF TENDERS

2.1 All tenderers in response to this invitation shall be submitted through online mode only. Tender submitted by **fax/cable/telegram or any mode other than online will NOT be considered at all** and all such tenders will be rejected without any notice to the tenderer.

2.1.1 **Part-I (Techno-commercial):** This part of the tender shall include/contain documents related to eligibility criteria, all technical details, technical specifications, drawings and also the commercial terms and conditions of contract for the supplies to be made and the services to be rendered **EXCLUDING ANY PRICE DETAILS THEREOF.**

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

2.1.2 **Part-II (Price):** This part should contain only the prices of the stores offered for the services to be rendered. Part-II (Price) should be furnished in accordance with the format provided by the Purchaser at Section "D" of this tender document

2.1.3 If tenderer includes prices of any nature in Part-I (Techno-commercial) of the tender such offers are liable for rejection without any notice to the tenderers.

3.0 EARNEST MONEY DEPOSIT (EMD)

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

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

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

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

4.0 LATE/DELAYED TENDERS

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

5.0 OPENING OF TENDERS

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

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

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

6.0 AUTHORITY LETTER

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

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

7.0 EVALUATION OF TENDER

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

8.0 PURCHASER'S RIGHTS TO REJECT QUOTATION

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

9.0 TECHNICAL CLARIFICATIONS

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

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

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

11.0 HOLIDAYS

If the date (s) specified for receipt and opening of the tenders is/are declared as holidays abruptly by the competent authority due to any administrative reasons, then the date(s) for opening of tenders will get postponed automatically to the next working day. As for instance, if the due date for receipt of tender and its opening falls on 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 of 120 (One hundred twenty) days from the date of opening of the tender. Offers with shorter validity period will be liable for rejection.

13.0 CATALOGUES/TECHNICAL LITERATURE

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

14.0 TERMS AND CONDITIONS OF THE CONTRACT

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

15.0 TENDERING CONDITIONS FOR BIDS

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

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

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

16.0 SPARES AND ACCESSORIES

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

17.0 QUANTITY

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

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

18.1 CUSTOMS DUTY

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

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

18.2 **FLUCTUATION IN THE CUSTOMS DUTY**

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

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

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

18.4 **GOODS AND SERVICE TAX**

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

- 18.4.5 **GST for Services:** As applicable. Specify the SAC codes wherever services are involved.
- 18.4.6 It would be the responsibility of the contractor to ensure that relevant certificate is obtained from the Purchaser before effecting the delivery of goods ordered failing which the excess tax paid by the contractor shall not be reimbursed by the Purchaser.
- 18.4.7 When GOODS AND SERVICE TAX is claimed as extra by the vendor in general and on packing charges in particular, the following certificates should be submitted by the vendor to the Paying Authority on the bills itself.
- 18.4.8 Certified that the goods and packing charges on which GOODS AND SERVICE TAX has been charged have not been exempted under the Central Sales Tax or the State Sales Tax Act or the rules made there-under and the amount charged on account of GST on these goods and packing charges are not more than what is payable under the provision of relevant Act or the rules there-under.
- 18.4.9 Certified further that we have actually paid GOODS AND SERVICE TAX and are being assessed to GST on packing charges and also that where there are statutory exemption under the Relevant Act/Law of the State Government concerned, we have availed ourselves of it and certified non-availability of such a provision for GST on packing charges wherever claimed.
- 18.4.10 Certified further in respect of amount claimed into the bill no claim is pending for refund/or admissible. Certified that in the event of our getting refund in whole or in part of the element of GOODS AND SERVICE TAX on packing charges claimed from Government, we shall pass on the benefit to the Purchaser by remitting to Government the amount equivalent to the amount of refund obtained by us.
- 18.4.11 Further certified that we abide by the all the provisions of Acts of Governemnt and rules made thereunder especially regarding anti-profiteering provisions.
- 18.4.12 Certified further that we (our Branch or agent) _____

 (address) are registered as dealers in the State of _____
 under Local Regn. No. _____ and in the State of _____
 under Central Regn. No. _____ for the
 purpose of State/Central Tax.
 (Stamp & Signature of the Vendor)
- 18.4.13 The vendor shall solely be responsible for declaration of Goods and Service Tax made in his invoice and shall indemnify the purchaser from any claim or its liability from concerned authorities at any stage.
- 18.4.14 Certificate with each bill to the effect that no refund has been obtained in respect of the reimbursement of GST made to vendor during three months immediately preceding the date of the claim covered by the relevant bill.
- 18.4.15 AN UNDERTAKING to the effect that in case any refund of GST is granted to the vendor by concerned authorities in respect of stores supplied under the contract, they shall pass on the credit to the purchaser immediately alongwith a certificate from their Director/Manager/Proprietor/ Accountant to the effect that the credit so passed on relates to the GST originally paid for the stores

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

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

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

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

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

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

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

Important Note:

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

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

19.0 FLUCTUATION IN STATUTORY LEVIES

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

20.0 SAMPLES/PROTOTYPES

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

21.0 QUANTITIES

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

22.0 SUBMISSION OF DRAWINGS

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

23.0 INSTALLATION AND COMMISSIONING

23.1 Wherever, the purchaser's invitation to tender calls for installation and commissioning or supervision of installation and commissioning of the instrument/equipment by the tenderer, the tenderer must clearly and separately quote the prices for the supply of the stores and the charges and the terms for installation and commissioning or supervision of installation and commissioning, as the case may be. The charges towards installation and commissioning should not be included in the price of the stores.

23.2 In respect of contracts involving installation and commissioning by vendors including overseas vendors where identifiable charges for the same has been quoted by the vendor, he shall bear the Income-tax liability as per the rates prevailing at the time of undertaking the job in accordance with the Income-tax Act in force in India.

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

24.0 **INSPECTION**

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

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

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

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

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

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

26.0 **PRODUCTS WITH ISI MARK**

26.1 Products with ISI mark will be preferred.

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

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

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

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

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

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

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

28.0 INSTRUCTION MANUAL

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

29.0 PACKING

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

30.0 DEVIATIONS TO PURCHASER'S SPECIFICATIONS AND CONDITIONS OF CONTRACT

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

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

31.0 DELIVERY

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

32.0 ACCEPTANCE OF TENDERS

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

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

33.0 SETTLEMENT OF COMMERCIAL TERMS AND CONDITIONS OF CONTRACT

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

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

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

35.0 **PAST PERFORMANCE**

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

36.0 **CAPACITY & FINANCIAL STANDING**

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

37.0 **CONFIDENTIALITY**

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

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

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

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

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

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

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

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

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

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

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

41.0 EXPORT LICENCE/EXPORT PERMISSION

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

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

42.0 END USE CERTIFICATE

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

END USER STATEMENT:

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

43.0 COUNTRY OF ORIGIN

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

44.0 LIABILITY

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

45.0 RIGHT TO REJECT QUOTATION

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

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

46.0 **PRICE / PURCHASE PREFERENCE**

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

47.0 **PERMANENT ACCOUNT NUMBER (PAN)**

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

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

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

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

SECTION 'B'

**GENERAL CONDITIONS OF
CONTRACT**

**INSTITUTE FOR PLASMA RESESARCH
PURCHASE SECTION**

**GENERAL CONDITIONS OF ALL
CONTRACT**

&

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

GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS

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

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

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

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

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

4. SECURITY DEPOSIT

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

5. DRAWINGS & SPECIFICATIONS

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

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

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

6. ALTERATIONS

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

7. SAMPLES

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

8. PACKING

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

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

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

9. DELIVERY:

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

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

9.2 EXTENSION OF DELIVERY SCHEDULE

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

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

10. INSPECTION

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

11. RECTIFICATION AND REPLACEMENT OF DEFECTIVE STORES

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

12. INSPECTION AND REJECTION

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

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

13. RECOVERY OF SUMS DUE

- 13.1 Whenever any claim for payment of, whether liquidated or not, moneys arises out of or under this contract against the Contractor the Purchaser shall be entitled to recover sum by appropriating, in part or whole, by encashing the Bank Guarantee submitted towards Security deposit by the Contractor, if a Security Deposit is taken against the Contract. In the event of the security being insufficient or no Security Deposit has been taken from the Contractor then the balance or the total sum or which at any time hereafter may become due to the Contractor under this or any other contract with the Purchaser, should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the Purchaser on demand the remaining balance due. Similarly, if the Purchaser has or makes any claim, 'whether liquidated or not against the Contractor under any other contract with the Purchaser the payment of all moneys payable under the contract to the contractor including the security deposit shall be withheld till such claims of the Purchaser are finally adjudicated upon and paid by the Contractor.
- 13.2 All demurrage, wharfage and allied expenses incurred by the Purchaser, if any, due to delayed clearance of Stores in view of non receipt, incomplete or delayed receipt of documents by the Purchaser, shall be recovered from the payment due to the Contractor.

14. BAR/PERT CHART

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

15. PERFORMANCE BANK GUARANTEE

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

16. PERMIT AND LICENCES

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

17. PATENTS & PATENT RIGHTS INDEMNIFICATION

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

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

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

18. LAW GOVERNING THE CONTRACT

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

19. JURISDICTION

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

20. SETTLEMENT OF DISPUTES

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

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

21. ARBITRATION

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

22. LIQUIDATED DAMAGES

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

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

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

23. EXERCISING THE RIGHTS AND POWERS OF THE PURCHASER

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

24. TRAINING

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

25. RISK PURCHASE

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

26. LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS

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

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

SPECIAL CONDITIONS OF CONTRACT GOVERNING SUPPLIES OF PLANT AND MACHINERY

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

27. DEFINITION OF PLANT

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

28. MISTAKES IN DRAWING

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

29. RESPONSIBILITY FOR COMPLETENESS

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

30. REJECTION OF DEFECTIVE PLANT

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

31. INSPECTION AND FINAL TESTS

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

one month of completion of erection.

32. TRANSPORT AND RESPONSIBILITY FOR BREAKAGES EN-ROUTE

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

33. ERECTION AND COMMISSIONING

- 33.1 In all cases where contracts provide for supervision of erection and commissioning or for test at the Purchaser's premises the Purchaser except where otherwise specified, shall provide free of charge, such labour, materials, fuels, stores, apparatus and instruments as may be required from time to time and as may reasonably be demanded by the contractor to carryout efficiently such supervision of erection and commissioning and for the requisite test. In case of contracts requiring electricity for the completion of erection, commissioning and testing at site, such electricity shall be supplied free to the contractor.
- 33.2 Action by the Purchaser under the clause shall not relieve the contractor of his warranty obligations under the contract.

34. WARRANTY

- 34.1 The contractor warrants that stores to be supplied under the contract shall be free from all defects and faults in materials, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for stores of the types under the contract in full conformity with the specifications, drawings or samples, if any and shall if operable, operate properly. This warranty shall expire (except in respect of complaints notified to the contractor prior to such date) twelve months after the date of receipt of the last lot of stores under the contract at the ultimate destination stipulated in the contract.
- 34.2 For a period of twelve calendar months after the plant/machinery/equipment/instruments has been put into operation (or a suitable mutually agreed longer period to be reckoned from the date of last major shipment depending upon the nature of the plant/machinery/equipment/instrument) the Contractor shall be responsible for any defects that may develop under conditions provided for the contract and under proper use, arising from the faulty materials, design or workmanship in the plant or from faulty erection of the plant by the Contractor, but otherwise and shall rectify such defects at his own cost when called upon to do so by the Purchaser who shall state in writing such defects.
- 34.3 If it becomes necessary for the Contractor to replace or renew any defective portions of the plant for purpose of rectification under this clause, the provisions of this clause shall apply to the portions of the plant so replaced or renewed under the expiration of six months from the date of such replacement or renewal or until the end of the above mentioned period of twelve months whichever may be the later. If any defects not rectified within reasonable time, the purchaser may proceed to get the work done at contractor's risk and expenses but without prejudice to any other rights which the Purchaser may have against the Contractor in respect of such defects as provided in clause 9.2.4 or 9.2.5.

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

35. MODE OF PAYMENT

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

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

36. DELAY IN ERECTION

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

SECTION 'C'

**TECHNICAL SPECIFICATIONS
OF
STORES AND DRAWINGS**

Please refer tender document

SECTION 'D'

FORMAT FOR SUBMISSION OF PART-II (PRICE)

Please refer tender document

DEFERRED TERMS

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

Following terms are **replaced** in our Form for Tender No. **IPR/TN/PUR/TPT/ET/21-22/016** dated **18-10-2021**.

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

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

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

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

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

DEFERRED TERMS

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

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

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

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

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

Liquidated Damages: As per Standard Terms & conditions, the Purchaser reserves the right to levy the Liquidated Damages, for delay in **completion period beyond the contractual completion date at the rate of half percent (0.5 percent) of the total Contract price (Basic price of item sr.no. 1.01 to 1.04)** for each calendar week of delay. **GST @ 18% will be applicable on LD charges.** The total liquidated damages shall not exceed five percent (5%) of the contract price (Basic price). Stores/Goods will be deemed to have been delivered only when all its component parts are also delivered. If certain components are not delivered in time, the Stores/Goods will be considered as delayed until such time as the missing parts are delivered.

DEFERRED TERMS

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

Warranty, Support & Subscription for Storage Solution: Please refer clause no. 9 of Section-C of tender document for more details.

- 10) Sr. No. 35 (Section-B) under heading Mode of Payment of “General Conditions of Contract” of Form No.IPR-LP-ET-02.V5 (Terms and Conditions) is replaced with the following:

Payment: Unless otherwise agreed to in writing between the Purchaser and the Contractor, payment for the delivery of the tendered items, will be made as follows.

- a) 80% against delivery of all components of Storage solution including hardware and software licensing cost (**i.e Item sr.no. 1.01 & 1.02 of price-bid**) + 100% of all other charges pertaining to Item sr.no. 1.01 & 1.02 of Price-Bid shall be paid after delivery of material at IPR site, verification of Bill of Material (BOM) duly certified by an authorized representative of IPR and on receipt of invoice in triplicate.
- b) Balance 20% of Item sr.no. 1.01 & 1.02 of price-bid and 100% of One time Implementation cost (**i.e Item sr.no. 1.03 of Price-Bid**) shall be paid within 30 days from the date of project sign-off/post-Go-Live (After successful UAT, successful integration and certification by an authorized representative of IPR)/final acceptance, on receipt of Performance Bank Guarantee for 3% of the order value + inclusive of all statutory levies and all other charges from SBI/nationalized banks or any one of the scheduled banks approved by RBI except from co-operative banks and Grameen Banks towards Performance Bank Guarantee valid throughout the warranty period (**Plus additional 2 months grace period**) and on receipt of final invoice.
- c) 100% of training cost (**i.e. Item sr.no. 1.04 of price-bid**) + all other charges pertaining to Item sr.no. 1.04 of Price-Bid shall be paid after successful completion of OEM instruction led training and on receipt of invoice in triplicate.
- d) One year cost for resident technician (**i.e Item sr.no. 1.05 of Price-Bid**) shall be paid on Quarterly basis after successful completion of each quarter and on receipt of invoice in triplicate against each quarter.

IMPORTANT NOTE:

- (a) Installation, testing & Commissioning charges (if applicable) should be inclusive of loading, unloading at IPR site, shifting, handling with accessories)
- (b) Detailed specifications and scope of work are as per Section-C of tender document.

DEFERRED TERMS

- (c) If the rate cells are left blank, it will be treated as "0" (ZERO)
- (d) Custom Duty Exemption certificate will not be issued to any bidder under any circumstances.
- (e) Prices as per bid format are only acceptable
- (f) GST (IGST, CGST, SGST or any form) should not be included in the basic cost (Unit Rate Column) for either goods or services.
- (g) Evaluated total cost on the basis of bid prices will be calculated by Purchaser after bid opening.
- (h) HSN/SAC Code: For indigenous goods/services, to be filled by the bidder

Following **ADDITIONAL CLAUSES** are **added to** our Form No. IPR-LP-ET 02.V5 for Tender No. **IPR/TN/PUR/TPT/ET/21-22/016** dated **18-10-2021**.

1. MAKE IN INDIA

- i. As defined under the Public Procurement (Preference to Make in India), order 2017, Revised order dated: 16/09/2020 or as being revised from time to time, in procurement of goods or services in respect of which the Nodal Ministry/Department has communicated, that there is sufficient local capacity and local competition, only "Class-I local supplier", as defined under the said order, shall be eligible to bid irrespective of purchase value.
- ii. Only "Class-I local supplier" and "Class-II local supplier", as defined under the above said order, shall be eligible to bid in procurements under taken by this Institute, except where the mode of procurement is by issue of Global Tender Enquiry. The bidding supplier shall indicate the percentage of local content for the item being offered in their bid.
- iii. Where the procurement is by issue of Global Tender enquiry, Non local suppliers, shall also be eligible to bid along with "Class-I local suppliers and Class-II local suppliers". Suppliers/bidders offering imported products will fall under the category of Non-local suppliers.
- iv. Subject to the provisions of the above said order, and to any specific instructions issued by the Nodal Ministry or in pursuance of the said order, purchase preference shall be given to "Class-I local Suppliers" in procurements under taken by this Institute, in the manner specified there in the order.
- v. The bidders along with their bid/tender shall be required to provide a self-declaration certificate of the local content (where the procurement value is Rs.10 Crore or less) for the item offered and their status as Class-I/Class-II/Non-Local supplier and their eligibility to participate in the tender. In cases of procurement for a value in excess of Rs.10 crores, the "Class-I local supplier"/"Class-II local supplier" shall be required to

DEFERRED TERMS

provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of Contractors other than companies) giving the percentage of local content.

- vi. Self-declaration certificate should quantify the percentage of local content of the offered product only. It should also indicate the location. However, claiming the services such as transportation, insurance, installation & commissioning, training and after sale service support like AMC/CMC etc., shall not be considered as local content as per OM N.P-45021/102/2019-BE-II-Part(1)(E- 50310) dated:4/03/2021 issued by Ministry of Commerce and Industry, DPIIT.
- vii. False declarations/violation of this order terms shall be deemed to be breach of code of integrity resulting in debarment of the firm for a period up to 2 years. Under such circumstances, the supplier shall not be considered for any preferences as proposed in the order.
- viii. Wherever the bids are received without accompanying the above said requisite certificate such offers shall be treated as incomplete and not considered.
- ix. Bidders/contractor are divided into three categories based on Local Content (The total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent):
 1. Class-I local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/ NIT, if prescribed, for the item being procured or 50% whichever is higher.
 2. Class-II Local supplier is with local content equal to or more than as prescribed by the Nodal Ministry/NIT, if prescribed, for the item being procured or 20% whichever is higher, but less than that applicable for class-I local supplier.
 3. Non-local supplier is with local content less than that applicable to class-II local supplier, as stated above.

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

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

2. ELIGIBILITY OF BIDDERS FROM SPECIFIED COUNTRIES:

DEFERRED TERMS

- i. Orders issued by the Government of India restricting procurement from bidders of certain countries which shares a land border with India shall apply to this procurement.
- ii. Any bidder from a country which shares a land border with India (<https://mea.gov.in/india-and-neighbours.htm>), excluding countries as listed in the website of Ministry of External Affairs (<https://meadashbaord.gov.in/indicators/92>), to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects – hereinafter called “Restricted countries”) shall be eligible to bid in this tender only if the bidder is registered (<https://dipp.gov.in/sites/default/files/Revised-Application-Format-for-Registration-of-Bidders-15Oct2020.pdf>) with the Registration committee constituted by the Department for promotion of Industry and Internal Trade(DPIIT) . The bidders shall enclose valid registration certificate along with their offer. Wherever the bids are received without accompanying the above said requisite certificate such offers shall be treated as incomplete and not considered.

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

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

4. CODE OF INTEGRITY

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

- (i) Prohibition of
 - (a) making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
 - (b) any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
 - (c) any collusion, bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.
 - (d) improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process

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or for personal gain.

- (e) any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract; which can affect the decision of the procuring entity directly or indirectly any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
- (f) obstruction of any investigation or auditing of a procurement process.
- (g) making false declaration or providing false information for participation in a tender process or to secure a contract;
- (ii) Disclosure of conflict of interest.
- (iii) Disclosure by the bidder of any previous transgressions made in respect of the provisions of sub-clause (i) with any entity in any country during the last three years or of being debarred by any other procuring entity.
- (iv) Institute for Plasma Research, after giving a reasonable opportunity of being heard, comes to the conclusion that a bidder or prospective bidder, as the case may be, has contravened the code of integrity, may take appropriate measures as deemed fit, including rejecting his bid and forfeiting EMD and/or debaring him from participating in future bidding.

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

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

IMPORTANT NOTE:

[1] QUOTATIONS ARE INVITED IN INDIAN CURRENCY ONLY.

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

(To be printed in letter head)

ANNEXURE-I

Self-Certification under preference to Make in India order Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments, we hereby certify that we M/s. _____ are local supplier meeting the requirement of minimum local content i.e., _____% excluding transportation, insurance, installation, commissioning, testing, training and after sales service support like AMC/CMC etc. as defined in above orders for the material against **IPR Enquiry/Tender No. IPR/TN/PUR/TPT/ET/21-22/016 DATED 18-10-2021** Details of location at which local value addition will be made as follows:
_____.

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

Thanking You,

Signature with date:

Name:

Designation:

Official Seal

ANNEXURE-II

Annexure to Bid Form: Eligibility Declaration

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

Tender No: **IPR/TN/PUR/TPT/ET/21-22/016** dated **18-10-2021**

Tender Title: **Supply, installation, configuration, commissioning and maintenance of scalable Software-defined storage (SDS) solution (1.7 PB usable capacity) as per the detailed specifications mentioned in the tender documents.**

Bidder's Name: _____

(Address and contact details)

Bidder's Offer No. _____

Date: _____

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

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

Penalties for false or misleading declarations:

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

(Signature with date)

(Name and designation)

Duly authorized to sign Bid for and on behalf of

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

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

Annexure-III

Undertaking

To,

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

Ref: Tender Notice No. IPR/TN/PUR/TPT/ET/21-22/016 dated 18-10-2021

Dear Sir,

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

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

Yours faithfully

Stamp and Signature of the Tenderer

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

Annexure - IV

IPR Enquiry NO & Date	IPR/TN/PUR/TPT/ET/21-22/016 DATED 18-10-2021
COMMERCIAL TERMS & CONDITIONS	
ITEM DESCRIPTION	Supply, installation, configuration, commissioning and maintenance of scalable Software-defined storage (SDS) solution (1.7 PB usable capacity) as per the detailed specifications mentioned in the tender documents

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

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

(To be printed in letter head)

ANNEXURE-V

BID SECURITY DECLARATION

IN LIEU OF SUBMISSION OF EARNEST MONEY DEPOSIT (EMD)

Ref: (1) Our Offer No. dated

(2) Your Tender No. IPR/TN/PUR/TPT/ET/21-22/016 dated 18-10-2021

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

Signature with date:

Name:

Designation:

Official Seal

SECTION 'C'
TECHNICAL SPECIFICATIONS
OF
STORES AND DRAWINGS

TENDER NO. IPR/TN/PUR/TPT/ET/21-22/016 DATED 18-10-2021

**Supply, installation, configuration,
commissioning and maintenance
Of
Scalable Software-defined storage (SDS)
solution**

AT

**INSTITUTE FOR PLASMA RESEARCH,
BHAT VILLAGE, GANDHINAGAR - 382428**

Pre-Qualification Criteria for Bidder/OEM

Sr. No	Eligibility Criteria	Documentary proof to be submitted.	Comply (Yes/No)
1.	The bidder must be OEM or authorized partner/service provider of the OEM or System Integrator (SI).	Letter of authorization from the OEM for the same and specific to this tender (clearly mentioning IPR tender number) must be enclosed. If components are from multiple OEMs authorization letter from each OEM as mentioned below is required. <ol style="list-style-type: none"> 1. OEM of Hardware Nodes 2. OEM of SDS software 3. OEM of ToR Network Switch if the bidder is an OEM, submit company profile.	
2.	The proposed SDS OEM must be there in the latest report of Gartner for “Distributed Filesystem and Object Storage” or “HCI (Hyper-Converged Infrastructure”. OR The proposed SDS OEM must be an INDIAN company registered with the Government of INDIA under the company Act 1956.	Bidder must submit a copy of the Gartner report showing the proposed OEM's position in the report. OR Documentary proof (copy of registration certificate) to be submitted for the same.	
3.	SDS OEM criteria: At least one installation of the proposed SDS solution anywhere in INDIA having storage capacity higher than 1 PB of each installation. OR At least two installations of the proposed SDS solution anywhere in INDIA having storage capacity higher than 750 TB of each installation.	Copies of the purchase orders with technical details along with installation/completion certificates issued by the customer.	

4.	Hardware OEM criteria: The hardware OEM(s) must have established service/support center/warehouse anywhere in INDIA preferably in Gujarat. It should be capable of 24 hours of turnaround time for all critical spares.	Bidder should submit documentary proof for the same.	
5.	The bidder/firm must have an office in the Gujarat or neighbouring state of Gujarat (preferably in Gujarat).	Bidder must submit documentary evidence for the same.	
6.	The bidder should have average annual financial turnover of Rs. 750 lakhs during the last three years ending on 31 st march 2020.	Bidder should submit the audited balance sheets of relevant periods or certificate from the CA/cost accountant indicating the annual turnover details.	
7.	Bidder should be a registered company having valid and updated ISO certification.	Documentary proof must be attached.	
8.	Self-declaring certificate in the following format. “It is certified that the firm M/S has not been blacklisted by any Central/State Government Organisation or by a PSU, GeM, NICS I during last three years.”	Undertaking on original letterhead duly signed by competent authority.	

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- 9. Warranty, Support, and subscription for Storage Solution**
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Annexure-1 (User Acceptance Tests-UAT)

1. Introduction

In recent years, the amount of storage required has increased dramatically, especially the unstructured data (documents, records, images, videos, experimental/scientific data, e-mails, logs). The cost per TB of storage and ease of data retrieval has become critical factors for choosing a storage solution. Traditional NAS and SAN approaches cannot meet our needs as both the cost and the complexity of managing as well as operating them have grown significantly. Also as a government organization, we do not have the liberty to move our data to a hosted cloud environment which also has data control and cost issues.

IPR is looking for a unified, software-defined, scale-out, economically viable, storage platform that delivers S3, NFS V3/NFS V4, CIFS/SMB, iSCSI/Block (optional) storage services on a single, modern platform that can also support multiple storage pools serving a variety of workloads — from throughput-sensitive, cost/capacity-focused workloads (Erasure Coding) to emerging IOPS-intensive workloads. IPR is looking for a solution that is free from Vendor lock-in (Hardware agnostic) for future expansion and must support scale-up and scale-out using commodity hardware and with consistent performance. The storage solution must support configurable data protection techniques (Erasure Coding, replication/mirror) and sustain hardware failure without data loss and data corruption.

The proposed solution must be:

- Software-based, enterprise-grade (enterprise storage features from the software layer), robust, and reliable.
- Scaling to tens of petabytes with consistent performance using commodity hardware which may be heterogeneous and from multiple OEMs.
- Unified providing file and object storage under one hood. **Optionally block interface with a single management interface.**
- Efficient at both small and large files workloads with no limits to file/object size
- Provides data protection techniques and no single point of failure.
- Lower operational expenses (OpEx) with self-managing and self-healing properties.
- Advanced remote replication, role-based security, and multi-tenancy support.

IPR, Gandhinagar invites interested, established, reputed and reliable OEM/ authorized distributors/System Integrators/Partners having the past experience to bid for supply, installation, configuration and maintenance of software-defined storage solution with required interconnects and accessories.

2. Scope of work

The scope will be supply, installation, commissioning and maintenance of scalable software-defined storage as per the specification. The solution will be installed at the IPR campus (Data Centre). The proposed solution shall offer a comprehensive platform for integrated storage infrastructure. The offered solution shall include required licenses for SDS and additional plug-ins/components required to meet the

needs of IPR. The proposal must also include the unified management and configuration software that can handle management and monitor the health and status of the given solution. This will also include the replication capability at the remote site from day one. The detailed specifications are listed in the subsequence section.

The primary scope for the successful bidder will be:

- **Supply of hardware** – storage nodes with storage devices (**Nodes** - storage heavy nodes, controller nodes, gateway/protocol nodes, and admin nodes with required storage and accessories)
- **Supply of Interconnects** – redundant ToR switches and accessories (I/O modules, cables) including required HBA's
- **Software** (Software-defined storage solutions, management, and monitoring software, gateways, drivers etc.)
- **One-time implementation** (including Design/architect, Installation, Configuration/ customization and integration) at IPR BHAT site.
- **One onsite resident technician/engineer for one year period to support the operation of the system after successful commissioning.**
- **Minimum 4 Days OEM provided instructor-led administrative training with hands-on for 3 members** (in addition to day to day operation and management training)
- **Five years comprehensive and on-site support services** from OEM for supplied hardware, software, and other accessories.

Additional hardware (controllers/ gateways /admin /management /monitoring /provisioning nodes) required to run the data services (Metadata, Gateways – Protocol converter services, etc..) are to be provided additionally as required **to meet the performance and HA criteria and as per the reference architecture validated by OEM.** The bidder is also responsible to provide required interconnects (ToR network switches) with accessories to complete the solution.

Bidder must have to submit a Bill of Material (BoM) with clearly mentioning the OEM part number for all the hardware, software, training, and support services with the bid. The software version and edition (i.e. starter, foundation, enterprise) also to be mentioned for all proposed software and the modules/components. The bidder is responsible to provide the datasheet(technical brochure) for all the proposed components along with the bid. The bid without the OEM part number will be rejected.

3. Overall Architecture

The proposed solution must support a storage cluster build using multiple storage nodes (Intel x86 based), presenting a single namespace and a storage pool to provide high-bandwidth data access for multiple clients in parallel. Data shall be distributed over multiple nodes/HDD in the cluster to deliver high data availability as per the configuration. The solution should be resilient in a self-healing manner, and to provide high throughput and scale capacity linearly. By decoupling software from the underlying platform/hardware allow to scale-out by adding industry-standard x86

based server nodes, including future hardware offerings. This provides a step forward in reducing the cost per TB of storage and total cost of ownership.

The storage solution must offer mature interfaces for enterprise file, object, and optionally block interface, making it an optimal solution for backup/archive of unstructured data, structure data, and cloud (OpenStack) infrastructure workloads. Possibility to associate different types and sizes of storage media to various performance/failure domains and then multiple storage pools can be configured to achieve appropriate performance/failure domain and cost profiles.

The proposed solution must support compression (data reduction technologies like deduplication or equivalent), data security, data protection, migration, self-healing, pool-based QoS and rebalancing from day one and without additional licenses cost to IPR. Authentication, authorization, and access control using Windows Active Directory and LDAP. There should be possibility to integrate with monitoring and alerting infrastructure. The system should have enhanced enterprise capabilities like multi-tenancy, capacity monitoring and quota.

4. Usable Storage Capacity (Sizing)

The proposed solution must provide at least **1.7 PB of usable capacity** (SSD NVMe drives will not be counted in the 1.7 PB, the only usable capacity provided by spinning disks will be counted). **The 1.7 PB usable capacity will be measured before putting the proposed storage solution in production by configuring Eraser Coding with X+2P (X = number of data chunks with 2 Parity bit) or higher (X+3P or x+4P).** Additionally, the bidder has to provide the usable capacity calculation showing compliance with the above requirement endorsed by the OEM without which the bid will be rejected.

- The usable capacity without adding the caching/journaling/metadata tier and the hot-spare capacity.
- All the proposed storage drives must be hot-swappable (excluding OS drives) and industrial/server-grade.
- The total size of SSD NVMe media which will be used for caching/metadata/journaling must be 1% or higher size of usable capacity of the system and at least 2 SSD NVMe Drives per nodes. Or if the Reference Architecture (RA) is available with benchmarking result the cluster wide SSD nVME capacity must be as per RA.
- All SSD NVMe must be enterprise-grade, MLC/SLC type, MIX/Write/Read intensive, and having 1 DWPD (Drive Write Per Day) or higher. If the SSD NVMe is used for journaling/WAL purpose 3 DWPD drive is must.
- The size of the individual HDD (spinning disk) proposed as a capacity tire must be 16TB or less.

5. Proposed use

The proposed storage solution will be managed by Computer Division, IPR (CC) to provide storage as a service (STaaS) in which CC will provide storage to their customers. Here in this case the customers will be various departments/divisions, associated projects, or servers running storage applications.

STaaS customers shall access individual storage services through standard system interface protocols or application program interfaces (APIs). Typical offerings will include; file, objects, block (optional) and storage applications that support file sharing and backup lifecycle management.

The solution should be capable to provide multiple storage pools (volumes, buckets, pools, LUNs) of different performances and sizes which can be accessed either as a file, object, or block (optional) storage as per the configuration. The various storage pools/buckets are able to provide various data protection capabilities (Erasure coding, two copies of data) as per the configuration applied.

6. Benchmarking and performance

The following test will be performed for both EC (Erasure Coding) and two copies of data (RF-2), the result for both must be equal or higher than the one mentioned below.

- The system should deliver a throughput of **at least 500 MB/s for large sequential files through NFS for 100% writes. Read throughput should be greater than write throughput.** The performance should be demonstrated using any standard tool and should be performed on a size of the file which is 4 times greater than the memory configured in all the clients together (i.e. effects of cache should not be taken into consideration while showcasing the performance).
- The system should deliver a throughput of **at least 500 MB/s for large sequential files through the S3 interface for 100% writes. Read throughput should be greater than write throughput.** The performance should be demonstrated using any standard tool and should be performed on the size of the file which is greater than the memory configured in all the clients together (i.e. effects of cache should not be taken into consideration while showcasing the performance).
- If the block storage (iSCSI) is provided, it should deliver a performance of at least 6000 IOPs taking an average read/ write ratio of 70/30 and an average IO size of 32KB.

7. Technical Specifications

Note: The points mentioned “Optional (O)” in the below table will NOT be considered at the time of technical evaluation and no bid will be rejected based on non-compliance of “Optional (O)” specification(s).

Sr. No	Description	Mandatory (M)/Optional (O)
1.	Overall architecture	
1.1	The solution must provide software-defined storage (SDS) that allows delivery of enterprise-class storage services using the Intel x86 based nodes connected using Ethernet-based interconnect and without any dependency on specialized storage interconnect (FC, IB, etc. or hardware components).	M
1.2	The storage cluster builds using multiple storage nodes together, presenting a single storage pool to provide high-bandwidth data access for multiple clients in parallel. There should be no single point of failure.	M
1.3	The solution should be able to support the different generations of INTEL processors and appliance models in the same cluster for investment protection over the life of the proposed solution. It also supports different types (HDD, SSD, NVMe) and size of disks. The ability to mix and match various models should be supported in the same storage cluster and unlike RAID there should not be any requirement for identical storage disks.	M
1.4	The solution shall provide the ability to expand the storage capacity by hot-add storage node(s) (scale-out) or hot-plug disks to existing nodes (scale-up) at a later point in time. The storage provisioning should be via GUI/CLI and with the least disruption to the workloads already running on the platform.	M
1.5	In the case of cluster expansion, the existing data should automatically balance across available controllers/nodes without any administrative intervention.	M
1.6	The storage solution must offer mature interfaces for enterprise file(NFS, CIFS/SMB)and object storage (S3). These services should be natively available or using OEM provided gateways. The required number of gateways nodes to meet the performance and HA criteria must be part of the proposed solution with required licenses from day one.	M
1.7	The storage solution should optionally support block storage for bare metal (iSCSI) access.	Optional
1.8	Possibility to associate different types and sizes of storage media to various performance domains (SSD, spinning drives) and failure domain (drives, nodes, racks, raw, DC) and then multiple storage containers (volumes/LUN/bucket) can be configured with available data protection.	M
1.9	Support for all basic storage management functions, such as data tiering, copy services (remote, local, point-in-time),	M

	encryption, data reduction technology like data compression (inline or delayed).	
1.10	The proposed solution must support data security, data protection, migration, self-healing, and rebalancing from day one and without additional license cost.	M
1.11	Optionally should support thin provisioning (allow over provisioning of the capacity), data deduplication (or equivalent data reduction), and pool/volume-based QoS.	Optional
1.12	Authentication, authorization, and access controls with Windows Active Directory (AD) and LDAP. Possibility to integrate with monitoring and alerting infrastructure like SYSLOG, E-mail, etc. The system should have enhanced enterprise capabilities like multi-tenancy, capacity monitoring, quota and alerting.	M
1.13	The Proposed SDS solution should be Licensed/Open source software. System Integrator (SI) developed software cannot be proposed. Software proposed should be from reputed brands/OEM and of enterprise-grade.	M
1.14	The proposed software solution and licenses should be PERPETUAL in nature and should have NO dependency on the underlying hardware.	M
1.15	The solution can be deployed on standard Linux distributions (Red Hat, SUSE, Ubuntu, or CentOS). The licenses and 5 years support services required for the OS must be part of the proposed solution. OR If a specialized Operating System (OS) by OEM then the OS should be available for download without any license cost to IPR.	M
1.16	Integration for OpenStack/KVM and other well-known private cloud technologies (based on VMWare, Citrix, Hyper-V, AHV/KVM)	optional
2.	Data Protection	
2.1	The solution should support data protection methodology using data replication (two or more copies of data within the cluster) and Erasure Coding or equivalent technology.	M
2.2	The data must be striped across multiple storage devices and nodes. On-disk or node failure, storage shall redistribute data across as many drives and nodes as possible to take advantage of multiple spindles.	M
2.3	Must tolerate a failure of at least two disks across any node or even simultaneous 2 nodes failure in the cluster and continue to serve data to end-users and applications without any data loss.	M
2.4	Storage solution should sustain full two-node failure (Network Partitioning), one or more components (disk, NIC) without any data loss or unavailability. On failure of any one node, there	M

	should not be a reduction of storage capacity by more than 15%.	
2.5	Provides enhanced data protection in a storage efficient fashion using flexible/configurable Erasure coding (i.e. 4+2P, 8+2P, 9+3P or equivalent), preferably without any dependencies on hardware RAID and regardless of object size.	M
2.6	Should have the capability to change the protection level (RF-2 to RF-3, RF2 to EC) per storage volume without any data loss or unavailability of data.	Optional
2.7	Provide data integrity by Checksums or equivalent technique. The system should have file system integrity and data integrity checks built in to prevent data loss due to bit rot and other soft errors.	M
2.8	Deliver data protection through the snapshot and/or clone and/or incremental replication. Restore capability from snapshot/clones by easy to use GUI.	Optional
3.	Disaster Recovery (Note: Kindly note that we do not have a DR site for data replication or we are not planning to use replication functionality on day one, but the functionality should be part of the proposed solution so we can use it as and when needed in the future.)	
3.1	Scheduled data replication at the remote site. The solution must be fully geo-capable and replicates data both within and across multiple sites (at least one remote site) for resiliency against site failures.	M
3.2	The replication capability shall be able to support incremental replication based on changed data blocks/chunks after the initial baseline transfer.	M
3.3	WAN bandwidth optimization/reduction during replication.	M
3.4	Shall have selection criteria for replication across WAN and shall support at least one-to-one replication. The target system may be a public cloud or a private cloud.	M
3.5	Shall integration with leading (third Party) archival/backup solutions (Veeam and others) to provide customizable policies to automate data replication/protection.	Optional
4.	Security	
4.1	The system must support authentication, authorization (Role Base Access Control -RBAC) by Integrating with Windows Active Directory (AD)/ LDAP. Also preferably support for POSIX users, group and fact based access control.	M
4.2	The system must be able to support Anti-Virus Scanning through Internet Content Adaptation (ICAP) protocol or any third-party tool.	M
4.3	The system must be able to support Write Once Read Many (WORM) capability.	M
4.4	Should provide data encryption at rest and on the wire (in transit).	Optional

4.5	The system should be able to block undesired files (do not allow to write) by their extension/mime type. For example .exe etc....	Optional
4.6	Support for Data-at-rest encryption (D@RE) with key rotation and external key management.	Optional
5.	Connectivity	
5.1	Each storage node should provide a minimum of 2 x 25 Gbps (data network), 2 X 25Gbps ports (client network), and 1 x 1Gbps networking ports for out of band management. (four-port of 25Gbps and one port of 1 Gbps per node)	M
5.2	Must support LACP for fault tolerance and load balancing.	M
6.	Warranty	
6.1	5 years of onsite comprehensive warranty and software subscription for all the proposed hardware and software. 8 hours guarantee response times for both hardware and software and resolution on the next business day.	M
6.2	Preferably a single point of contact for both software and hardware.	Optional.
7.	DC footprint, Power and cooling	
7.1	The solution must be rack-mountable. Should not use more than 35U in the DC rack including the ToR switches and all other components.	M
7.2	The solution in totality should not use more than 18KW power and 70000 BTU (IT)/hr cooling.	M
7.3	The solution must be of standard size and can be mountable in a standard 19" rack. The depth must be 800mm or less. Before submission of the bid, bidder can request IPR data center visit where the solution will be commissioned. This will avoid last moment commission issues due to incompatibility with exiting data center racks. OR If the proposed solution is not physically fitted in the existing data center racks, the bidder can propose changes in the existing data centre racks and must get the approval of IPR before bid. The cost to implement the proposed changes in the existing data center racks shall be borne by the bidder.	M
7.4	The bidder must have to provide peak power, cooling, and weight for the proposed storage solution along with the technical bid. Without this, the bid will be rejected.	M
7.5	All nodes (hardware components) must have redundant (N+N) power and fan units. All the power supply must be Titanium quality (efficiency more than 90%).	M
8.	Broad Specifications of Object Storage	
8.1	S3 interface: S3 API service with bucket/object, No file size limit for object or file, Quotas for S3, Web based GUI management.	M

8.2	Policy-based automatic data tiering.	M
8.3	Object Storage shall allow any object to be accessed from any node/disk and the most recent version of data always available (strong consistency).	Optional
8.4	Ability to set default retention periods for different categories of object	Optional
8.5	Object storage shall offer metadata search. Any license to enable this feature shall be offered from day one.	Optional
8.6	Object Storage shall provide versioning capability to protect and record Object-level changes.	Optional
8.7	Multi-protocol access where data ingested through one protocol can be accessed through others without keeping multiple copied of data. This means that data can be ingested through S3 and modified through NFSv3/V4 or Swift, or vice versa.	Optional
8.8	Comprehensive IAM security model for Users, Groups with Roles, integration with MS AD over SAML 2.0 (ADFS), Bucket based ACLs.	M
9.	Broad Specifications of File storage	
9.1	Provides native POSIX file system compatibility as well as support for common protocols including CIFS/SMB, NFS V3, and NFS V4. Optionally LINUX FUSE support.	M
9.2	It must be possible to set quotas at a user, group, or file set level and should have Microsoft active directory and LDAP integration for SMB interface.	M
9.3	Support for multiple File System Abstraction Layer (FSAL) through NFS-GANESHA or equivalent.	Optional
10.	Storage Nodes (minimum of 6 numbers)	
10.1	Certified hardware nodes by the SDS OEM or from reputed INDIAN OEMs or OEMs like DELL, HPE, CISCO, HITACHI, IBM, LENOVO, Super Micro.	M
10.2	The proposed solution (hardware and software) must be based on reference architecture (RA) for proposed SDS. OR The proposed solution must be certified/validated by SDS OEM against the specification. Documentary proof/certificate should be attached.	M
10.3	Intel Xeon processor with 16 MB or higher L3 cache. Each storage heavy node must have at least one logical CPU (vCPU) core per connected HDD OR 1 GHz or higher per connected HDD.	M
10.4	Each storage nodes must have at least 4GB of RAM per HDD and additionally 32 GB RAM per node (i.e. 32 GB + 4GB/HDD). The RAM must be ECC DDR4 or higher.	M
10.5	Each node must have at least 2Nos x 25 Gbps (for data), 2 Nos x 25Gbps (client/public access), and 1 No x1Gbps	M

	(Management) Ethernet ports. (i.e. per node 4 x 25 Gbps and 1x 1Gbps Ethernet port)	
10.6	Each node/JBOD must have a Titanium power supply. Redundant and hot-swappable power and fan in N+N mode.	M
10.7	All the disks drive including SSDs (except OS drives) must be hot-swappable, replaceable.	M
10.8	The storage disks are part of the server chassis itself or connected through JBOD. Each connectivity must be through PCI Express 3.0 x16 or higher based (or equivalent dedicated slot) having 12 Gbps SAS-3 (12Gb/s SAS, 6Gb/s SATA) compliant HBA or equivalent RAID controller (pass-through mode – 4 Gb or higher Cache) with the required number of ports to avoid the performance bottleneck. The connectivity between node and the JBOD must be redundant to avoid the single point of failure. The accessories required for connecting and mounting the JBOD and any other accessories required are to be provided by the bidder.	M
10.9	Each node must have redundant M.2 disks or equivalent (configured using RAID 1) of 128 GB or higher as a boot drive.	M
10.10	Additional resources (CPU, RAM, storage) are required to run any additional services (protocol/gateway, management services, etc...) other than storage services to be calculated and provide extra on each node. Preferably separate node to run the additional services.	M
10.11	Required number of 16TB or less capacity drivers (7.2 K RPM) for data storage and additional nVME SSDs for caching/metadata/journaling.	M
10.12	All other accessories with rail kit to for mounting the server nodes.	M
10.13	System management software to monitor the system health at local console and over the network.	M
11.	Management Software	
11.1	Proposed storage must be managed and monitored via integrated web-based UI, CLI & RESTful APIs.	M
11.2	Should be capable to deliver deployment automation, provisioning, capacity management, storage tier optimization, reporting, data protection/replication configuration and management, storage resource management through easy to use web-based administrative GUI.	M
11.3	The ability for cognitive insight into storage health and actionable insights allows optimizing storage utilization by <ul style="list-style-type: none"> • Reclaim unused storage to delay future purchases and improve utilization • Delivers higher service quality by anticipating problems, reducing errors, and responding more quickly to incidents and service requests. • Possibility to configure custom alerts and notification 	Optional
11.4	The portal must have comprehensive reporting capabilities including <ul style="list-style-type: none"> • Performance monitoring 	M

	<ul style="list-style-type: none"> Capacity utilization per storage pool, node, disk, and per site. Performance monitoring on latency, throughput, and replication progress. Diagnostic information, such as node and disk recovery status. 	
11.5	It shall co-exist and integrate with leading systems management software, server utilization, and availability with detailed performance graphs.	Optional
11.6	The software should maintain a record of significant configuration changes and the administrator who initiated them (Configuration change audit trail).	optional
11.7	The software should provide the manageability of the complete inventory of nodes, network switches, network connectivity, disks, and storage pools with greater visibility into object relationships and their current status.	optional
11.8	Must have integration with LDAP/AD for authentication and role-based authorization. Optionally should provide Single-Sign-On (SSO) capability.	M
11.9	Should provide alerts with symptoms and recommended actions for known problems with the ability to add custom alerts.	Optional
11.10	The management solution should have the capabilities to create customized dashboards with "zero programming" effort. The dashboard should provide overall system-level health and performance information.	Optional
11.11	It should be possible to associate workflows with alerts to automatically initiate corrective measures at critical thresholds.	Optional
12.	ToR Data Center switches (Note: Adequate number of ports for the proposed solution + 10% buffer ports with 25Gbps or a higher speed to be provided. The switch required to connect Management ports will be provided by IPR).	
12.1	At least two number of 1U rack-mountable ToR switches to be provided to connect the proposed hardware nodes in a fault tolerance and load-balanced manner.	M
12.2	Considering future expandability 10% buffer/Free/unused ports with 25Gbps or a higher speed to be provided.	M
12.3	Must be enterprise data center switches from CISCO, HPE, DELL, Arista, Mellanox, Juniper, Extreme, Huawei, or equivalent only (Enterprise Class).	M
12.4	Must have sufficient 100GbE QSFP28 ports which can support 10/25/40/100 GbE to connect with IPR LAN.	M
12.5	2.1 Tbps (full-duplex) or higher non-blocking, cut-through switching fabric.	M
12.6	Redundant, hot-swappable power supplies and fans. Fan units having IO Panel to PSU Airflow is to be supplied.	M

12.7	Must have stacking or equivalent capability, must support at least 2 numbers of switches in a stack with ACTIVE/ACTIVE control plane.	M
12.8	Full data center bridging (DCB) support for lossless iSCSI SANs, RoCE, and converged networks.	Optional
12.9	Configurable packet mirroring and multi-pathing support.	M
12.10	Scalable L2 and L3 Ethernet switching with QoS, ACL, and a full complement of standards-based IPv4 and IPv6 features including OSPF, BGP (latest routing protocols)	M
12.11	All required trans receivers (preferably of the switch OEM) and patch cords to connect all proposed hardware.	M
12.12	Required trans receivers and patch cords to connect with IPR LAN using 40Gbps redundant uplink connectivity. We have HPE 5940 switches on the IPR LAN side and the required trans-receivers on this side also must be supplied. Compatible trans receivers to be provided with 10 Mtrs of patch cords for redundant connectivity.	M
12.13	Must include required stack cables/modules or equivalent (40 Gbps, 2 Mtrs) to connect the switches with each other (equivalent to CISCO VSS) using redundant path connectivity.	M
12.14	Must include any other accessories, cables, etc. Required to install and complete the solution.	M

8. One time implementation and resident technician

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

1. The successful bidder must carry out the Pre Delivery Survey of the site and submit a brief report (including project planning with schedule) to ensure a smooth installation process within three weeks from the release of PO.
2. Understand the IPR's needs by gathering the detailed requirements, design, and architect the solution accordingly based on the best industrial/OEM practices. Get approval of the documented proposed design and architecture from OEM and IPR before implementation.
3. Unpacking, assembling, rack mounting and installation of all the components of the proposed solution at IPR, Bhat Village data center. All cabling must be done properly with proper workmanship and using OEM suggested accessories so as to provide efficient air circulation and must not block any air circulation behind the servers. Each component/cable must have properly labelled.
4. Installation, configuration, and implementation of storage solution at IPR and integration with existing LAN based on best practices. This also includes installation and configuration of the latest stable SOFTWARE components including proposed management software.
5. Configuration of High Availability (HA) of critical components following industry standard and best practices to sustain against possible failure. The entire

network stack must be configured with no single point of failure with a redundant ToR switch and LACP (active-active). Software components must be installed in load balance and HA manner to achieve the desire performance.

6. Configure all required monitoring policies and e-mail alerts to have regular reports for better visibility and manageability.
7. The detailed specifications of UAT (User Acceptance Test) are listed in the subsequence section. The test must be carried out by the bidder as per **Annexure – 1** before Go-Live and test reports to be prepared and submitted to the IPR IT representative.
8. Creation of required LUNS/Volumes/Buckets and configuration of performance and failure domain. Integration with existing LDAP/AD for authentication and authorization for system administration as well as for usage and quota management.
9. IPR is currently running many storage solutions including SAN and NAS storage. The bidder shall be responsible to integrate existing storage and network infrastructure with the proposed storage solution to use the proposed storage as a backup/archival target using the existing Veeam/equivalent open-source backup/archival solution. Also, demonstrate the recovery of data to respective data sources in case of backup.
10. Also integrate the existing SAN (HPE 3 PAR, IBM Spectrum/DDN) and NAS storage with the proposed storage solution for data archival/backup purposes by configuring the policy.
11. The bidder has to create shares for each department (approx. 50) and define quota and read-write permissions. Make this available on the LAN using NFS/CIFS.
12. The bidder will be responsible to integrate the proposed storage solution with the NextCloud (Open source file sync and share) application which is already deployed in IPR. Configure backend storage container for the NextCloud as required in coordination with NextCloud administrator of IPR. Migrate the existing NextCloud data to the newly defined backend storage.
13. Configure iSCSI target as required and allow access to it as block device over the LAN (optional if the functionality is not available with proposed solution).
14. Define storage policy (RF-2, EC, etc) for the critical and non-critical workload on different storage pools/containers and demonstrate the fault tolerance and other functionality.
15. The bidder has to implement an entire solution as per the requirement of IPR and has to ensure minimum downtime during the implementation and migration activity. However, when any downtime is required, IPR will provide the same after office hours. The bidder has to request any downtime well in advance to IPR IT staff.

16. The bidder has to harden the storage solution against possible security threats, as per the requirement of IPR and as per the best practices/guideline.
17. Submit installation and configuration documentation (documentation shall include screenshots for steps performed). Standard Operating Procedures (SOP) to be provided for start-up and shutdown of the solution, start-up shutdown of an individual node, routine operation, management, and maintenance procedure.
18. Configuration and implementation of the entire solution shall be certified by SDS OEM before project sign-off.
19. Project sign-off will be done on completion of a steady-state operation period of 30 days and submission of documentation to IPR. The project shall be considered as completed once project sign-off is done.

On-site deployment of resident technician for one year

1. The bidder has to provide one on-site resident technician/engineer for a period of 1 year after the project sign-off date.
2. The person has to be on-site from 9:00 a.m to 5:30 a.m, 5 days a week i.e. Monday to Friday except holidays declared by IPR. In case of any urgent need, planned/unplanned maintenance activity during off office hours onsite engineer has to give support without any additional cost to IPR.
3. The proposed manpower must be at least engineering/science graduate. Must be certified or have at least 1 year of prior experience of a SDS solution or 3 years of experience in handling any storage systems. He/she must be capable of handling the solution independently.
4. The person will be responsible for the day-to-day operational management of the proposed storage solution in coordination with OEM and IPR IT representatives. Also responsible for monitoring and management of the storage solution, diagnose and fix the problems as reported by the users, manage vendors and raise incidents with respective vendors.
5. IPR will not provide any means of transport or accommodation to on-site engineer.
6. In case of non-availability of concerned engineer as mentioned, an amount quoted for the manpower deployment will be deducted accordingly on pro rata basis.

9. Warranty, Support and subscription for Storage Solution

1. Bidder shall provide a minimum of 5 years (60 Months) of OEM support and subscription services for the entire solution (including hardware and software). Direct 24x7 OEM support, 8 hours of response time with next business day resolution including replacement of the faulty part. The support shall be for unlimited incidents including the unlimited upgrades and updates for 5 years.
2. The warranty period shall start from the date of project sign-off (Completion of one time implementation duly signed by IPR representative). In case of the delay caused by IPR, after 3 months of delivery of the entire solution, the warranty period will start automatically.
3. Bidder shall obtain similar warranty from each of his sub-bidder/OEM. However the overall responsibility shall lie with the bidder.
4. IPR will have options to extend the warranty period if the performance is not satisfactory during warranty period.
5. The support must be directly from OEM and must furnish an OEM part number to verify the support eligibility for the entire duration of the support period. Access to the OEM support portal to be provided to IPR representatives by sharing the credential required to get the support directly from OEM.
6. The warranty period shall include the maintenance; replacement of defective/failed parts at free of cost and unlimited breakdown calls. IPR will not provide any transport /accommodation for this purpose.
7. OEM should ensure that IPR gets all firmware updates/upgrades for underline hardware, patches for all software during the contract period of 5 years without any additional cost to IPR.
8. The SI/OEM engineer must perform onsite/remote periodic health checks every three months during the entire warranty period.
9. In the event of specific hardware/software component failure (incident), the bidder 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.
10. The bidder must ensure that during upgrade or maintenance, no data loss occurs.
11. In case of any failure of storage disk during warranty period, vendor has to replace the hard disk. However, the failed disk will not be returned to the vendor as per the IT security policy of IPR.
12. The bidder has to submit the escalation matrix for his/her organization and OEM. Any changes to the escalation matrix for bidder organization or OEM must be communicated immediately to IPR to have a better service guaranty.

13. The bidder shall provide the following comprehensive support services during the warranty period.

- 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 IPR, BHAT site (**next business day replacement of faulty part**).

10. Training

Minimum 4 Days OEM Instructor-led Administrative training with hands-on (with soft copy of training material) for minimum 3 number of IPR Employees at OEM's training center preferably in Gujarat or Mumbai (certified training designed by OEM without exam). 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 SDS components, SDS, Management software, accessibility, integration, and other related proposed software components.

Virtual Training (Through Video Conferencing and with remote access to cloud deployment for hands-on) is also acceptable if agreed by the IPR IT representative.

11. Terms & Conditions

11.1 General Terms and conditions

1. The cost quoted by the bidder should be in **INDIAN RUPEES (INR)** only and for delivery at IPR stores, Bhat Village, Gandhinagar, and installation & commissioning at DC, IPR Campus.
2. The bidder must be OEM or authorized partner/service provider/System Integrator (SI) of the OEM. Letter of authorization from the OEM(s) for the same and specific to this tender (clearly mentioning IPR tender number) must be enclosed.
3. IPR has right to place order on a single party for all the items for ease of supply and services (overall lowest will be considered).
4. The bidder should provide compliance statement against all the technical specifications of all the deliverables. Offer without compliance statement will not be considered.

5. Installation and commissioning charges (if any) should be clearly mentioned in the tender. Supplier should arrange their own means of transport both for Personnel and Installation. IPR will not be responsible for any injury to your personnel, damage to your property, caused at site.
6. The bidder (successful bidder) shall conduct an acceptance test of the supplied solution and demonstrate the functionality as per the specification. It is the responsibility of the bidder to resolve any issues including performance-related issues before the project sign-off.
7. All equipment to be supplied must support to INDIAN power requirement. The power cable to be supplied must be as per the available power sockets in the rack of the DC.
8. All software licenses supplied under this project should be perpetual in nature. In case of a 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.
9. 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. All licenses required for this shall be quoted along with the offer.
10. 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. The incomplete offer is liable to be considered non-compliant and rejected. **A partial solution from any bidder will not be acceptable and hence such a bid will be rejected.**
11. 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 bidder should include such hardware accessories and related software elements or plug-ins to enterprise management software including the required licenses in their offer.
12. For all items in the list of deliverables offered by the bidder, the OEM's part number (in the case of software the proposed version/edition of the software) should be clearly indicated. The offer of items without a 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.
13. 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.
14. All the installation and migration activities need to be carried out by a certified engineer of SI in coordination with OEM (software stack provider).

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

16. The bidder must deliver a fully operational storage solution integrating all the components required to achieve the requirements.
17. Details of peak power consumption and peak heat dissipation for the offered solution must be provided with the offer.
18. The bidder must provide all the necessary and sufficient length of cables, connectors, rack mount kits, and other components required for the offered solution.
19. The bidder 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 shall be the responsibility of the bidder and at the cost of the bidder.
20. The bidder shall execute back-to-back support agreement with all involved OEMs for the hardware as well as software for the entire warranty period and submit a copy of such agreement to IPR after the PO is awarded and before the release of the first payment.
21. The movement of the shipment should be advised to IPR, well in advance for better management.
22. The selected party should follow the security procedure applicable at IPR campus.

12. Completion period: 8 months from the date of contract.

13. List of Documents to be uploaded with technical bid

- Proposed BoM (Bill of Material) with OEM part number (In case of software the proposed version and software must be mentioned clearly)
- Datasheet for each proposed node (Storage, gateway, metadata, etc), ToR switches, and trans-receivers.
- The datasheet for proposed software components.
- The detailed architecture of the proposed solution.
- The document describing the Reference Architecture (RA) based on which the solution is designed and proposed.
- Document showing the calculation of Peak Power, Cooling, and Space requirements.
- Technical Compliance Sheet with clearly mentioning the deviation if any.
- Additional documents to be uploaded to prove eligibility as listed in the Pre-Qualification Criteria (Section : 12)

- **Detailed Bill of Material including the OEM part number, make, model against each item to be provided as part of the technical offer.**

14. Glossary / List of Acronyms Used

Disclaimer: The abbreviation used for technical specifications has its usual connotations and any bidders having any doubt about those abbreviations, may get it clarified before submitting the bid if missing in the Glossary. IPR will not be responsible for any confusion leading to wrong understanding and faulty bid submission by the bidder. Interpretation of abbreviation used in these tender documents as decided/provided by IPR representative will be final and binding.

Sr.no	Acronym	Definition
1.	SDS	Software-Defined Storage
2.	AMC	Annual Maintenance Contract
3.	BOM/BoM	Bill of Material
4.	DC	IPR's Data Centre
5.	DD	Demand Draft
6.	Institute	Institute For Plasma Research
7.	DMZ	Demilitarized zone
8.	DR	Disaster Recovery
9.	DWPD	Drive/Device Write Per Day
10.	EMD	Earnest Money Deposit
11.	HBA	Host Bus Adaptor
12.	HCI	Hyper-Converged Infrastructure
13.	OEM	Original Equipment Manufacturer
14.	PBG	Performance Bank Guarantee
15.	LDAP	Lightweight Directory Access Protocol
16.	QoS	Quality of Service
17.	SLC/MLC	Single level cell / Multi-level cell
18.	SAN	Storage Area Network
19.	SDDC	Software-Defined Data Centre
20.	NVMe	Non-Volatile Memory Express
21.	SI	System Integrator
22.	ToR	Top of Rack Switch
23.	OpEx	Operational Expenses

Annexure – 1

User Acceptance test (UAT)

1. Physical verification of supplied hardware against proposed BoM.
2. Verification of licensing for software components against proposed BoM (version, edition, and subscription period).
3. Verification of physical installation and cable connections for routing and labelling.
4. Power on and perform a burn-in test by running the hardware for continuously more than 48 hours.
5. Validate the integration with IPR LAN and other required services LDAP/AD, SMTP, NTP, etc. Validate the high availability of network connectivity and other components.
6. Validation of HA and fault tolerance of the system against each software and hardware component failure (Mimic node, component failure, and verify the resiliency and data availability).
7. Create a single storage pool, configure it for Erasure Coding (EC) and demonstrate the percentage of usable storage against the raw storage. Verify the usable capacity against the requirement.
8. The bidder is expected to demonstrate storage solutions for all three types of interfaces i.e. file, object, and block (if available) and for all types of workload archival/backup, shared storage (NFS/CIFS), iSCSi target (if available).
9. Demonstrate the performance parameters as asked in the benchmarking section.
10. The demonstration must include the management, monitoring, and provisioning tool for functionality and user-friendliness.
11. Demonstrate capacity enhancement/reduction by adding/removing node, software/firmware upgrades without any disruptions/downtime to data.
12. Creation of more than one object storage bucket and configure different storage policies (at-least one with two copies of data and one with EC).
13. Verification of integration with existing NextCloud (file share and sync) application.
14. Demonstrate the functionality related to custom metadata, versioning, and tiering of data on object storage. Verify the user access (read/write) permission against the various configurations.
15. Definition of various failure zones and performance zones. Verify the data distribution according to defined zones.
16. Create file storage volume(s) and validate the accessibility using NFS, CIFS protocol on Linux and Windows clients.
17. If a block storage interface is available, create block storage volume, and demonstrate the availability of storage volume on Linux and Windows (This test is optional and based on the availability of the block interface).
18. Demonstrate the high availability of each and every software component (metadata servers, gateways, etc.) required for the functioning of the storage system and to serve with the required performance.

19. Demonstrate the simultaneous multi-user read/write access of the same volume/directory/file.
20. Demonstrate multi-site replication on a private and public cloud. Also the possibility to have policy-based tiering of data including public cloud. Configure the WAN optimization and demonstrate the performance. (This test is optional and based on the availability of the test setup)

SECTION 'D'
FORMAT FOR SUBMISSION
OF PART-II
(PRICE)

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: Head-Purchase Section

Name of Work: Supply, installation, configuration, commissioning and maintenance of scalable Software-defined storage (SDS) solution (1.7 PB usable capacity) as per the detailed specifications mentioned in the tender documents.

Tender No: IPR/TN/PUR/TPT/ET/21-22/016 DATED 18-10-2021

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE

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

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
SI. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Software-defined storage infrastructure (hardware and software) as detailed in the tender document. Bidder must have to submit a Bill of Material (BoM) with clearly mentioning the OEM part number for all the hardware, software, training and support services alongwith the Technical Bid.					
1.01	Software-defined storage infrastructure (hardware and software) for 1.7 PB of usable storage capacity and having 5 years of OEM provided onsite warranty and support services as per the specifications mentioned in the tender document.	1.000	Set		0.00	INR Zero Only
1.02	ToR Switches having 5 years of OEM provided onsite warranty and support services alongwith required I/O modules, cables and accessories to connect proposed storage infrastructure with each other and with IPR LAN as per the specifications mentioned in the tender document.	1.000	Set		0.00	INR Zero Only

1.03	Installation, configuration, commissioning and one time implementation charge as detailed under Sr.No. 8 of Section-C of tender document.	1.000	Job		0.00	INR Zero Only
1.04	Minimum 4 days instructor-led training provided by OEM with hands-on for three people (with soft copy of training material) for minimum 3 number of IPR Employees as detailed under Sr.No. 10 of Section-C of tender document.	1.000	Job		0.00	INR Zero Only
1.05	One onsite resident technician for 1 year as detailed under Sr.No. 8 of Section-C of tender document.	1.000	Man year		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				