

ITER-INDIA
(INSTITUTE FOR PLASMA RESEARCH)
A-29, GIDC ELECTRONICS ESTATE, SECTOR-25
GANDHINAGAR 382 025, GUJARAT STATE
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TENDER NOTICE No.II/TN/PUR/001/08-09 DATED 6-11-2008

Sealed tenders are invited in **TWO PARTS** from reputed and eligible parties for the following services.

Sr. No	Item	Qty.	Due Date & time of opening	Tender Fee (Rs.)	EMD (Rs.)
1.	Providing different types of Engineering Services to ITER- Cooling water system (TWO PART TENDER)	1 Lot	5-12-2008 2.30 p.m.	1000.00	5,00,000.00

Tender documents are available on ITER-India Website (<http://www.iter-india.res.in>) and IPR Website (www.ipr.res.in). Tenderers meeting the eligibility criteria mentioned in the tender documents may, at their option, download the tender documents from the website and submit their offer along with prescribed **Tender Fee (non refundable) and EMD** in the form of Demand Draft from any nationalized/scheduled bank drawn in favour of **Institute for Plasma Research A/c ITER-India** and payable at **Ahmedabad** as per the details given in the tender documents. In case party desires to collect the tender documents by post, they may contact the Project Purchase Officer at the above address along with prescribed tender fee. Tender documents will be issued upto **19-11-2008.**

Part-A

Technical bid

TENDER NOTICE No.II/TN/PUR/001/08-09 DATED 6-11-2008
(TWO PART)

ENGINEERING SERVICES FOR ITER-COOLING WATER SYSTEM

Content:

1. Instructions to bidders and terms and conditions.
2. Critical eligibility criteria to submit the offer.
3. Technical specifications.

1. Instruction To Bidders And Terms And Conditions:

International Thermonuclear Experimental Reactor (ITER – <http://www.iter.org>) under construction at Cadarache- France, is a multinational project aimed to demonstrate the controlled energy production by thermonuclear fusion. The ITER machine is jointly being constructed by India, EU, US, Japan, Korea, Russia and China. Institute for Plasma Research has been nominated as the Indian nodal agency for co-ordination and implementation of India's deliverables. One of the systems, India has to deliver for ITER project is Cooling Water System (CWS). ITER-India is in the process of empanelling reputed process cooling/ engineering design contractors for providing engineering services to ITER-CWS.

1. This tender notice is for providing following Engineering Services to ITER-CWS at ITER-Indiaa/IPR/vendor's place
 - a. Making Process Flow Diagrams, Process & Instrumentation Diagrams, 3-D pipe routing, single line diagrams, etc
 - b. Conceptual/basic design, integration studies, interface checking, optimization studies, value engineering studies, etc
 - c. Preliminary/detailed analyses
 - d. Documentation like system requirement document, interface control documents, detailed design document, etc
 - e. Tender documents preparation

Please refer Section –3, Technical Specifications for more details.

This tender is to have rate contract for above activities. It should be noted that ITER-India will give the work related to these activities to selected vendor/s as and when the need arises. ITER- India has estimated the approximate quantum of work and is given in section – 3 of this document.

For item (i) i.e. preparation of diagrams, vendors having required facilities or willing to set up required facilities in Ahmedabad or Gandhinagar to carry out this activity only should submit their offer.

For other items, vendors having required facilities to carry out these activities anywhere in India can submit their offer.

Vendor can submit the offer to provide any or all of the engineering services. Contract may be placed on single or more vendors for above

engineering services at the sole discretion of appropriate authority appointed by Project Director, ITER- India.

2. The quotation and any order resulting from this tender/enquiry shall be governed by the conditions of the contract and supplier quoting this enquiry shall be deemed to have read and understood the same in complete.
3. Where counter terms and conditions have been offered by the vendor, the same shall not be deemed to have been accepted by ITER- India, unless our specific written acceptance thereof is obtained.
4. Clarifications: Any technical and commercial questions, information, clarifications, etc. that may be required pertaining to this tender/enquiry can be obtained from the Project Purchase Officer, ITER- India before submitting the tender.
5. Bids shall be complete in all respects and shall include properly filled in prices, other specifications, credentials, etc as necessary along with the bid covering letter, all in duplicate.
6. Full details and specifications of the items and general instructions to be followed regarding submission of tenders are indicated in this tender document.
7. **This is a two-part tender and offer should be submitted in the following manner.**
 - a. **Part – A:** Commercial terms and conditions (Section – 1), Supporting documents for critical eligibility criteria (section – 2), technical bid (section –3), Demand Drafts for tender fee and EMD will be put in one sealed envelope. This envelope should be super scribed as **“Technical Bid”**.
 - b. **Part – B:** Price bid will be put in second sealed envelope. This envelope should be super scribed as **“Commercial Bid”**.
 - c. Place both these envelopes in one single sealed envelope (clothbound or plastic), super scribing the envelope with tender number, due date and title of the tender.
8. Proof for fulfillment of eligibility criteria mentioned hereunder should be submitted along with the tender. If the offer is submitted without valid documents, it may not be considered for further evaluation. Offer received without proof of eligibility criteria will be rejected.

9. Tender documents can also be obtained by submitting a written request to the Project Purchase Officer, ITER- India, together with prescribed tender fee, provided that the eligibility criteria are fulfilled. Last date for issue of Tender documents is 18-11-2008..
10. While requesting for tender documents, such request shall indicate the **“REQUEST FOR TENDER DOCUMENTS AGAINST TENDER NOTICE NO.II/TN/PUR/001/08-09 DATED 6-11-2008.”**.
11. The tender fee (non refundable) of Rs.1000.00 (Rs. One thousand only) should be made in the form of **DEMAND DRAFT** from any nationalized/commercial bank drawn in favour of ***Institute for Plasma Research, A/c ITER-India*** and payable at **Ahmedabad**. Vendor’s name and tender number shall be indicated on the reverse side of the Demand Draft. **The date of DD should not be prior to the date of advertisement.** Those who use the downloaded tender documents from ITER- India /IPR websites may submit the prescribed tender fee keeping in a separate envelope (PART-A) along with the tender. **Tender received without the prescribed tender fee will be rejected**
12. **EARNEST MONEY DEPOSIT (EMD):** The Bidder shall submit interest free Earnest Money Deposit (EMD) for Rs.5,00,000/- (Rupees Five lakhs only) by way of Demand Draft issued in favour of ***"Institute for Plasma Research, A/c ITER-India"*** and payable at **Ahmedabad**. This amount is fixed irrespective whether the vendor is submitting the offer for one or more engineering services. Vendor’s name and tender number shall be indicated on the reverse side of the Demand Draft. **The date of DD should not be prior to the date of advertisement.** Tender received without EMD will be rejected at the discretion of ITER- India. EMD of unsuccessful bidder will be returned after finalizing the contract/placing purchase order. Quotations received without EMD will be rejected.
13. **QUOTATION:** Quotation should be submitted **in two parts, Part –A and Part – B as mentioned in point – (7).** Quotations should be submitted to the Project Purchase Officer at the above address latest by 1.00 p.m. on **5th December, 2008**. Part-A will be opened on the same day at 2.30 p.m. in the presence of attending tenderers.
14. In the event of any date indicated above is a declared holiday, the next working day shall become operative for the respective purpose mentioned herein.

15. Late and delayed quotations will not be considered. ITER- India will not be responsible for postal delays or any other delays in receipt of quotation. Envelopes received without tender number, date, due date and short description of item may be rejected.
16. Offer should be valid for a period of 180 days from the due date for placing order. ITER- India is not bound to accept lowest rate/s. ITER- India reserves the right to place order on one or more parties irrespective of whether it is lowest or not.
17. No request for the extension of due date will be considered.
18. ITER- India will not be responsible for any delay/loss of documents in transit.
19. Tender received without the details asked for including proof of eligibility for participating in the tender may not be considered.
20. Issue of tender documents does not mean that a vendor is qualified to submit tenders. ITER- India's decision to consider as to whether a vendor has met with the eligibility criteria is final.
21. **Contract period:** Contract will be placed for two years and may be extended for additional two years without any change in rates and terms and conditions.
22. Tender should be free from correction and erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
23. ITER- India shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender.
24. **Taxes and duties:** All applicable tax/es will be paid extra. You may indicate the prevailing percentage of tax in your quotation.
25. **Completion period:** The contract is for two years for different CAD / engineering services to be provided by the vendor. However, as this is the rate contract, delivery for actual job will be mutually agreed upon by the vendor/s and ITER-India.
26. **Security Deposit:** The successful Bidder will have to furnish to the Purchaser an interest free security deposit for 10% (ten percent) of the order/contract value

in the form of Bank Guarantee of an equivalent amount from a nationalized/scheduled bank within 15 days from the date of LOI/Purchase order/Contract and the said Guarantee should be valid for two years or extended period from date of the contract.

27. **Liquidated Damages:** In addition to forfeiting Security Deposit, Liquidated Damages for the delay shall be ½ % (half percent) of the total order value for the delay of each week in the scheduled time of supply or the scheduled date of final completion for the work as the case may be, subject to a maximum of 5% (five percent) of total order value. Liquidated Damages will be recovered from the payment due to the supplier.
28. **Sub-contract:** All sub-contractors are required to be appraised and approved by the purchaser before placement of orders by the vendor.
29. **Jurisdiction:** The contract shall be governed by the laws of India for the time being in force. The courts of Ahmedabad only shall have jurisdiction to deal with and decide any legal or dispute arising out of this contract.
30. **Settlement of disputes:** Any disputes or difference arising out of or in connection with the contract/purchase order shall be to the extent possible settled amicably between the parties. If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration.
31. **Arbitration:** In the event of any dispute or difference arising under this contract, the matter shall be referred to the Arbitrators one each nominated by the Purchaser and Contractor from their respective organizations. In case the said Arbitrators are not able to settle the dispute by themselves, the matter shall be referred to the Arbitrator mutually nominated by the Purchaser and the Contractor and whose decision will be final and binding on both the parties. The venue of arbitration will be ITER- India /IPR. Subject to as aforesaid the Arbitration Act, 1990 and the rules there under and any statutory modification thereof for the time being in force shall be deemed to apply to the Arbitration proceedings under this Contract.
32. **Force Majeure:** In the event of any unforeseen event directly interfering with the work arising during the currency of the contract, such as war, hostilities, act of the public enemy, civil commotion, sabotage, fires, floods, explosion, epidemics, quarantine restrictions, strikes, lockouts or acts of God, the tenderers shall, within a week from the commencement thereof; notify the same in writing to ITER- India with reasonable evidence thereof. If the force majeure condition(s) mentioned

above be in force for a period of 90 days or more at any time, ITER- India shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days notice to the tenderer in writing. In case of such termination, no damages shall be claimed by either party against the other, save and except those which had occurred under any other clause of this contract prior to such termination

33. Late/delayed tenders will not be accepted. Incomplete tenders may be rejected at the discretion of ITER- India.
34. ITER- India is not bound to accept the lowest tender. ITER- India reserves the right to select any vendor at its sole discretion.
35. **Result of the tenders:** Unsuccessful tenderers will not be informed of the result of their tenders.
36. The Project Director, ITER- India reserves the right to accept or reject any quotation/tender fully or partly without assigning any reason.
37. Clarification, if any, on the tender document, technical specifications, scope of work etc. can be obtained before submitting the offer from the Project Purchase Officer, ITER- India .

We agree to the above terms and conditions.

Place:

Signature of bidder with seal

Date:

Note: A copy of our terms and conditions duly signed should accompany your quotation.

2. Critical eligibility criteria to submit the offer:

Followings are the critical eligibility criteria the vendor has to fulfill to submit the offer. Technical offer of vendor will be evaluated only if the vendor satisfies these criteria. Vendor must submit all supporting documents to prove his eligibility to submit the offer. Please attach xerox copies of these documents.

(i). For item (i) of Section –1(a) (Preparation of diagrams)

- i. Vendors having required facilities or who will set up required facilities in Ahmedabad or Gandhinagar to carry out this activity only should submit their offer.**
- ii. Vendor should have knowledge of cooling equipments, piping elements (like valves) and instruments.**
- iii. Vendor should have carried out process flow diagrams, process & instrumentation diagram, single line diagram, 3D piping layout, etc for large piping systems in the past five years.**
- iv. Vendor should have design centre equipped with minimum 2 work stations equipped CATIA V5. If the vendor does not have this software readily available, then an undertaking should be given that the software will be procured and made operational within one month from date of contract. Also, vendor must have other software and hardware required to carry out activities listed in tasks description (section –3.E). Vendor must have licenses to use this software. The alternate may be the utilization of infrastructure provided by ITER- India, subject to availability.**

(ii). For items other than (i) of Section – 1 (a) i.e, ii to iv

- i. Vendors having required facilities to carry out these activities anywhere in India can submit their offer. But, the vendor may be required to visit ITER- India for fortnightly technical discussions / review meetings at their expenses.**
- ii. The vendor should be a process engineering contractor who has at least five years experience in cooling system design, plant engineering, piping analysis, seismic analysis, preparation of engineering technical documents, value engineering studies, data**

acquisition and control, etc. The expert manpower with the contractor should be available in place at the vendor place in India at the time of applying to this tender. A record of the such expert manpower with their Payroll should be existing with the vendor for verification

iii. The vendor should have undertaken a wide range of activities associated with the design and development of large size cooling & piping systems.

(iii). General conditions applicable to both (i) & (ii) above:

- i. The vendor should be equipped with a design and analysis standards and codes for ready reference.
- ii. The vendor should have in-house qualified engineering team consisting of mechanical, electrical and instrumentation engineers available in place with their registered payroll since their joining with the vendor at their office in India at the time of applying to this tender.
- iii. Even if the vendor has global presence, the expertise/experience within the country will be specifically evaluated along with their eligibility criteria of resources as mentioned in these selection criteria.
- iv. Annual turnover of the vendor for last three years should be minimum Rs. 100 lakhs, irrespective whether the offer is for one or more engineering services.
- v. Vendor must have executed single contract of similar kind worth of minimum Rs. 25 lakhs in last three years, irrespective whether the offer is for one or more engineering services.
- vi. Vendor should have experience in the relevant field for a period of at least five years.

3. Technical specifications

A. System background:

The scope of ITER CWS (India's scope) consists of ~320 MW Component Cooling Water System, ~60 MW Chilled Water System, Water Circulation System and ~450 MW Cooling Tower System. The Component Cooling Water System (CCWS), Chilled Water System (CHWS) and Heat Rejection System (HRS) are the ultimate carrier for removal of deposited heat from the Tokamak machine and from various components within the Tokamak building. These systems have at least 20 interfaces with the clients in the Tokamak machine and its auxiliary systems.

The conceptual / basic design of ITER-CWS has been completed. The baseline documents and PIDs have been already made. In the meantime, there occurred some design changes, requirement changes, routing changes and equipment relocations, thus leading to the refinement of basis design and documents. Therefore, before proceeding to the phase of detailed engineering, ITER-India/ ITER Organisation (ITER-IO) is in the process of seeking engineering consultancy from reputed process/ engineering design contractors to undertake the task of freezing system engineering design and functional specifications. While executing the work, the design/engineering contractor may be required to attend meetings at ITER-Site, Cadarache and to have discussions through tele/videoconferences. ITER-India will facilitate the necessary documentary support for attending and for doing work at ITER-site.

The existing baseline documents (Detailed Description Document-DDD, Project Background Document –PBD, Project Integration Document-PID, System Requirement Document-SRD, etc.) previous design studies, P&ID/Process flow diagrams, and Catia V5 catalogues will be made available to the contractors to carry out the task. While executing the tasks, a close coordination is to be established among ITER- India, ITER-IO and the engineering contractor.

B. Objectives of this engineering services contract:

This tender is intended to serve as the basis of master CONTRACT for retaining the contractor to provide engineering services to ITER- India/ITER-IO.

The objective to enter in to this contract is to make use of available external resources to get ITER-CWS activities completed in fixed time schedule. Activities will be taken up as and when required during contract period as per scope of work defined in this section. Also, the output data to be generated after carrying out the activities as defined in this scope of work may vary as per requirement of specific system and component of ITER- India / ITER IO.

The contractor engineers should also prepare detailed tender documents for 'detailed design, engineering, procurement, testing and shipping' of following systems

- ✓ Chilled water system (CHWS)
- ✓ Component cooling water system (CCWS)
- ✓ Water circulation system (WCS)
- ✓ Cooling tower system (CTS)

C. Quantum of work:

ITER- India expects the engineering contractor to provide approximately the following man-months of services to ITER- India. ITER- India will request the contractor to respond to the task containing Work Specification Document issued from time to time, which identifies the services required from contractor, details of the project, man-months required and other terms and conditions that may comply.

Sr. No.	Description	Approximate man-months of service (for first two years)
1	CAD activities (2D)	90
2	CAD activities (3D)	30
2	Engineering activities	150

Notes:

- *The above man-month estimates are indicative only. If any new tasks are assigned by ITER-IO / any new tasks are identified by ITER- India, additional man-months will be required.*
- *Based on the number of engineering agencies empanelled, the works shall be distributed.*
- *CAD/Engineering tasks need to be taken up immediately.*

D. Tasks description:

The following tasks show only the indicative areas of interest. The engineering contractor has to carry out any other specific task (related to CWS only) allotted by ITER- India /ITER-IO.

Examples of CAD activities:

- CAD design studies:
 - Preparation of catalogues
 - Conceptual design, basic design and/or detailed design
 - Preparation of Process Flow Diagrams, Process & Instrument Diagram, Single line diagram, pipe routing, cable tray routing, etc
 - Integration studies; interface checking; other verification tasks...
- Associated deliverables:
 - 3D models (native CATIA V5 format)
 - 2D drawings (native CATIA V5 format)
 - 2D catalogues (native IGE-XAO / CATIA V5 format)
 - 3D catalogues (native CATIA V5 format)
 - Process documentation: PFD and P&ID (native VISIO format through IGE-XAO or CATIA V5)
 - Bill-of-materials
 - MS Office reports (according to the ITER-IO Design Office monitoring processes)

Examples of engineering activities:

- Engineering studies:
 - Conceptual design, basic design and/or detailed design
 - Engineering studies (codes & standards, heat loads, water chemistry, cost estimates)
 - Value engineering studies
 - Conceptual design of mini-Data Acquisition & Control system
 - Preliminary and/or detailed analysis (structural, thermal, fluidic, performances, simulations, seismic, etc)
 - Reliability, Availability, Maintainability, Integrity studies
 - Sequencing of Operation & maintenance activities
 - Contribution to integration studies; fixing of interface issues; checking tasks...
 - Contribution to the writing of ITER technical documentations like system requirement document (SRD), interface control documents (ICD), detailed design document (DDD), procurement technical specifications, etc
 - Contribution to the writing of draft specifications, PA sections...
- Engineering activities also include the preparation of tender documents for 'detailed design, engineering, procurement, testing and shipping' of CHWS, CCWS, WCS and CTS
 - ✓ Preparation of complete tender documents (ready to be floated as public tender / EOI)
 - ✓ The tender documents should be complete in all aspects with system background, conceptual design, technical specifications, equipment specifications, applicable codes & standards, spares, logistics, quality assurance plan (equipment wise), Bill of Materials, approved makes of equipments, commercial terms & conditions, Budget estimation, vendor selection criteria, delivery schedules, diagrams, testing & inspection, acceptance criteria, annexes like baseline documents, drawings, etc...
 - ✓ The draft tender documents prepared by the contractor will be reviewed by ITER- India and/or NPCIL and the draft may need to be revised by the contractor incorporating the comments provided by

ITER- India/ NPCIL. After review by ITER- India/ NPCIL, the draft shall be sent to ITER-IO for acceptance. The contractor needs to cooperate with ITER- India, till the final acceptance by ITER-IO. However, if no comment is received from ITER-INDIA/ ITER-IO within 4 weeks, the submitted report/ result is considered to be accepted by ITER-INDIA / ITER-IO.

- Associated deliverables
 - Reports in MS office documents
 - Analysis reports in relevant softwares

E. Infrastructure required with vendor:

- (a). **Work Locations:** Most of the work has to be done by the vendor at his works. Information regarding this requirement should be submitted in Response Format-I (RF-I). However acquiring inputs, essential interactions and part of the work packages as and when decided, have to be done at ITER- India. During contract period, if found necessary by mutual agreement to carry out some activities listed in scope of work using ITER- India infrastructure, vendor will deploy his manpower at ITER-INDIA. For this ITER- India will not provide any local hospitality.
- (b). **Onsite facilities :** For Onsite works with options of utilizing ITER-India/IPR infrastructure facilities, the vendor will have to bear the cost per personnel with rental or as per actuals to applicable facilities as per the rules and regulations of ITER-India that will be made available during the time of finalizing the contract.

A partial list of infrastructure facilities may include facilities like telephone with ISD/STD/Local call/fax, electricity, Information Technology with Internet/ LAN connections, video/teleconferencing, Air-conditioning, seating and office infrastructure with maintenance, canteen and transport facilities and so on. The partial list is indicative but however is not a binding under this contract.

In the event that the On-site facilities indicated above are not available with ITER-India, the Contractor has to make his own arrangements.

- (c). **Facilities:** The vendor should have sufficient work-stations, sufficient number of computer hardware, software of compatible configuration and relevant infrastructure at his facility to meet the time schedule. A statement in this respect should be submitted in Response Format-II (RF-II). It may be required during some stage of contract execution to increase the facilities due to increased workload. Vendor must have capacity to do so in short notice.
- (d). **Manpower:** Vendor should depute sufficiently qualified, trained and experienced manpower on the job. Due weightage will be given to experience in relevant fields, for evaluating and finalizing the contract. Information regarding this aspect should be submitted in Response Format-III (RF-III). It may be required during some stage of contract execution to increase the manpower due to increased workload. Vendor must have capacity to do so in short notice.
- (e). **Contract Manager:** Project Director, ITER- India will nominate a Contract Manager for ITER- India. Similarly, vendor will nominate a Contract Manager to execute the contract.
- (f). **Service Profile of vendor:** Vendor should be in the business for a minimum of 5 years in India. More experience will deserve due weightage during evaluation for contract. The service profile of vendor will be submitted in Response Format-IV (RF-IV).
- (g). **Financial Soundness:** Since the design and analysis workload may not be evenly distributed throughout the period of contract, there may be a need on the part of the vendor to add or hire additional manpower, hardware and software etc.; at short notice. Hence, vendor should be financially sound. Necessary supporting document in this regard will be submitted in Response Format-V (RF-V).
- (h). **IT and Networking:** Vendor should be fully knowledgeable and experienced in making use of data transfer through networking and related communication and should be adequately equipped for the

same. The details of this aspect should be submitted in Response Format-VI (RF-VI).

- (i). **Logistics:** Vendor should have his own transport arrangement for commuting between ITER- India and his own work place. ITER- India does not take any responsibility for providing them local hospitality.
- (j). **Confidentiality:** Vendor has to undertake and ensure that no details of the work entrusted to them under the contract will be disclosed to anybody except the persons directly responsible to carry out the job.
- (k). **Property Right:** All the reports generated under this contract will be the property of ITER- India and use of these reports in any form and for any purpose will be made only with the prior approval of ITER –IN. ITER- India shall be free to use design, drawings and specifications developed during execution of this contract for any purpose.

F. Methodology for Contract Execution

- All the CAD data produced by the contractor should be produced using the same software and release as the ITER-IO. They should all be saved into the IO CAD Database by Contractor / ITER- India
- The CAD Design work will be performed according the ITER CAD Manual and the ITER Protocol of Design Collaboration (*will be given to the successful bidder*)

Each subtask will be assigned by ITER- India to the contractor in terms of Work Order (WO) and Work Specification Document (WSD) as defined below.

➤ Work Order (WO):

As part of the task, each WO will be defined with long and short-term deliverables for each task for the contractor to execute. The Work order will be issued by the Project Director and ITER- India Purchase Officer which will indicate the time of start and time of completion for the given task with further details on management and resources.

➤ Work Specification Document (WSD):

Each of the work order supplied by ITER- India will include a Work Specification Document along with individual milestones. The WSD will contain all the details of input, engineering tasks to be carried out, deliverables and all other technical details of the work order.

➤ **Task progress, completion & acceptance:**

The contractor should submit weekly progress report in 'weekly progress monitoring table' provided by ITER- India. The milestone-wise progress should be submitted to ITER- India in the tracking sheet. The contractor should submit the milestone-wise result/report to ITER- India. ITER- India (along with ITER-IO) would confirm the acceptance of the inputs and approvals to be made to the contractor in time.

Acceptance of the report/ document / drawing for the task carried out in accordance with contract document will be subjected to the final approval of ITER-IO. During this, if any revisions are required, such revisions are to be carried out by the Contractor without any additional cost.

➤ **Milestone payments:**

Each task may be split into 'sub-tasks' which indicate payment milestones. Each sub-task will be reviewed by ITER- India and ITER-IO and on acceptance of results / progress report by ITER- India and ITER-IO, respective milestones will be cleared for payment.

➤ **Main applicable softwares:**

- CAD System: CATIA V5 R17/R18 or the latest
- CAD data-base: ENOVIA LCA (Life-Cycle Activities) – VPM V5
- ENOVIA LCA Viewer
- Process Flow Diagrams (PFD), Process & Instrumentation Diagrams (P&ID) - IGE-XAO (VISIO based) or CATIA accessible to IO DB through CITRIX
- Documentation - MS Office
- Any other engineering related software packages identified by ITER-IO

The engineering contractor must be equipped with the infrastructure developed under the monitoring of the CAD working Group and the engineering working Group (IO + DA representatives), involving in particular an effective connection to the collaboration network and the ITER software platform (same release and customization as that of IO).

➤ Work Policy/Personnel:

• Project Management:

On award of the task, the contractor should designate a responsible coordinating person to serve as the main contact between ITER- India and the contractor. The scope and specific conduct of contractor's services, consistent with the task must be coordinated with Project Manager / Responsible Officer of ITER- India / ITER- IO.

• Manpower deployment:

The contractor should allocate appropriate qualified and experienced manpower to carryout the scope of work mentioned in the WSD. For all the activities, the contractor needs to employ engineers (B.E/ B.Tech/ B.Sc (Engg) / AMIE) with minimum of five years post qualification experience. The names of identified persons along with their qualifications and experience should be submitted along with the bid. The proof of qualification and experience need to be submitted to ITER- India, on demand.

• Contractor's Personnel.

The contractor shall ensure that their personnel provide necessary services to carry out activities defined in WSD. If any personnel of the contractor is found unacceptable to ITER- India for any reason whatsoever, ITER-INDIA shall notify the contractor and the contractor should immediately take appropriate corrective action in consultation with ITER- India.

- The contractors should interact and communicate all correspondences to ITER-India only. *There should not be any direct interaction/ communication by the Contractors with ITER-IO*

- Compliance with Security Requirements. The contractor's personnel shall observe and comply with all of ITER- India / ITER-IO's security procedures, rules, regulations and policies. The contractor's personnel shall be available for performing tasks on Saturdays, Sundays, public holidays, and after the normal working hours of ITER- India on ITER- India's instruction. The information/data transfer to and from the contractor shall be as per security norms of ITER- India defined below.
 1. The contractor's personnel need to meet officials of ITER- India at mutually agreed time schedule.
 2. The contractor should ensure a formal transfer of data, drawings, documents or any decisions with details of records regarding the task of context or reference and so on.

- Licenses: The contractor should maintain the specific and requisite Software licenses as required and as per the requirements defined in this contract. The licenses should be with complete legal status and should be owned by the contractor. The legal status of licenses should be ensured during execution of contract. If the contractor is not able to procure required licenses, then ITER-India shall provide the same. So the contractor has to quote for both the options.

- Independent contractor status. The contractor should acknowledge and agree that it is an independent consultancy and its personnel are not ITER- India's agents or employees for tax purposes or any other purposes whatsoever, and are not entitled to any ITER- India's employee benefits. The contractor assumes sole and full responsibility for the acts of its personnel and the contractor and its personnel have no authority to make commitments or enter into contracts on behalf of, bind or otherwise obligate ITER- India in any manner whatsoever. The contractor, is solely responsible for the compensation of its personnel assigned to perform services hereunder

G. Prices and terms of payment:

- The contractor has to attend the meeting / technical discussion at ITER- India at their expenses.
- It is expected that some engineers are required to participate in the scheduled meetings, as and when required, to discuss the scope of task and to interact with the ITER-IO staff at ITER-Site (France). All admissible expenses, as per Government of India Rules, for such visits will be reimbursed to the contractors by ITER- India at actual in Indian Rupees. ITER- India and the contractors will mutually decide the number of persons required for each meeting/ for the tasks at ITER-IO.
- No payment other than set out in the contract will be paid to the contractor for completing the entire scope of work covered in this contract for whatsoever reasons.

H. Invoicing and Payment.

Unless other payment terms are specified in the Work Order, the contractor shall raise the invoice upon ITER- India's written acceptance of any deliverables / milestone and task performed. All invoices, except for amounts disputed by ITER- India, shall be payable within 30 (thirty) days of receipt. All taxes and duties as per government's rules will be applied to ITER- India and the contractor for the payment. Any disputed amounts shall not affect payment of non-disputed fees and expenses.

I. Security Deposit:

The contractor will be required to submit an interest free security deposit of 10% of contract value. The security deposit will be furnished by the way of Bank Guarantee of an equivalent amount from a nationalized/scheduled bank within 15 days from the date of signing the contract and the said Guarantee should be valid initially for a period of 2 years but extendable for 2 more years.

J. Records. The contractor shall maintain complete and accurate accounting records in connection with services performed and materials provided hereunder, in accordance with generally accepted accounting principles, to substantiate its charges. The contractor shall provide ITER- India access to such records for audit purposes for one (1) year from the date of final payment under each Statement of Work.

The following information need to be sent by the bidder in the prescribed formats alongwith the technical bid.

RESPONSE FORMAT NO –I

WORK LOCATIONS

Name of the Facility and contact person/persons
Address
phone no
mobile no
email address
FAX no

RESPONSE FORMAT NO –II

FACILITIES

1. Computers
 - Make
 - Configurations
 - Numbers

 2. Softwares
 - Name of software & version
 - Whether licensed
 - Numbers

 3. Peripherals and accessories
-

RESPONSE FORMAT NO –III

1. THE MANPOWER WITH THE VENDOR

Name	Qualification	Date of Employment with company	Experience description

2. ADDITIONAL MANPOWER ON PANEL

Plan of action to get the additional manpower to be deployed to meet the peak workload.

RESPONSE FORMAT NO –IV

SERVICE PROFILE

Client	Service delivered	Duration	Software used

RESPONSE FORMAT NO –V

FINANCIAL SOUNDNESS

RESPONSE FORMAT NO –VI

IT & NETWORKING WITH THE VENDOR

Part-B **Price bid**

TENDER NOTICE No.II/TN/PUR/001/08-09 DATED 6-11-208
(TWO PART)

ENGINEERING SERVICES FOR ITER-COOLING WATER SYSTEM

Content:

1. Notes
2. Price bid

Notes:

1. Only on cases of on specialized software needs for specific tasks, ITER- India shall provide computational facilities (only PC/laptop loaded with required software package)
2. In case of utilization of ITER-India infrastructure for onsite works, please refer section 3.E of Technical bid
3. For details of CAD / Engineering activities, please refer section 3.E of Technical bid
4. The rate should be quoted in rupees only
5. Quoted rates should be firm and valid throughout the period mentioned in the price bid.

PRICE BID

((Bidders are requested to offer their price bid in the following format))

RATE-I (For first two years from the date of contract signing)

ACTIVITY-1 (CAD activities (Deliverables- 2D drawings)): Man- month rates

Location: ITER-INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER-INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
30 months	60 months	90 months	30 months	60 months	90 months	30 months	60 months	90 months

ACTIVITY-2 (CAD activities (Deliverables- 3D drawings)): Man- month rates

Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
10 months	20 months	30 months	10 months	20 months	30 months	10 months	20 months	30 months

ACTIVITY-3 (Engineering activities): Man- month rates

Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
50 months	100 months	150 months	50 months	100 months	150 months	50 months	100 months	150 months

RATE-II (For third and fourth years)

ACTIVITY-1 (CAD activities (Deliverables- 2D drawings): Man- month rates

Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
30 months	60 months	90 months	30 months	60 months	90 months	30 months	60 months	90 months

ACTIVITY-2 (CAD activities (Deliverables- 3D drawings): Man- month rates

Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
10 months	20 months	30 months	10 months	20 months	30 months	10 months	20 months	30 months

ACTIVITY-3 (Engineering activities): Man- month rates

Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure* by ITER-INDIA			Location: ITER- INDIA/Ahmedabad/Gandhinagar Option: Infrastructure not by ITER-INDIA			Location: Vendor's place Option: Infrastructure not by ITER-INDIA		
50 months	100 months	150 months	50 months	100 months	150 months	50 months	100 months	150 months

* includes only PC/laptop loaded with required software

Please indicate the percentage of applicable taxes:

Authorized Signatory:

Name:

Designation:

Official seal:

Date: