

GeM Bid No: <u>GEM/2025/B/6240925</u> Dated: <u>22-05-2025</u> Design of ITER Component Cooling Water System-2F (CCWS-2F) and Chilled Water System-H4 (CHWS-H4) Pre-bid Queries and Responses				
2. Query No.	3. Ref. Tender Part / Section No.	4. Ref. Clause No. / Page No.	5. Description of the query	6. Response of ITER-India (Purchaser)
1	Part-A(IA)	1 / Page 5, 6, 7	There are two tables for Essential Eligibility Criteria.	The table in pages 5 and 6 to be referred as Table 1-1. The second table (pages 6 and 7) to be deleted. Clause 1 a. (page 5) and clause 1 b. (page 6) to be read as a single clause as below. "Bids meeting the Essential Eligibility Criteria (EEC) shall only be considered as "Eligible Bids". Bidder as mentioned in the EEC Table 1-1 means single Indian company. Bidder must upload digitally signed or ink signed & stamped copies of documents in support of EEC. However, meeting the essential eligibility criteria in itself does not automatically qualify through the technical bid evaluation process."
2	PART-A(II): Scope of Work and Technical Specifications	3.3 / Page 13	"Mode 2: Off Mode In Off Mode there is no flowrate and no heat transfer, the system or components are in its de-energized state or under shutdown." ITER-India to confirm during shutdown state does coolers require water flowrate at secondary side without heat transfer	Coolers (heat exchangers) do not require water flow at secondary side during Off mode.
3	PART-A(II): Scope of Work and Technical Specifications	5.1.1 / Page 28	"Perform the transient hydraulic and thermal analysis of the CCWS-2F and CHWS-H4 for various operation scenarios/ states and prepare detailed report." ITER-India to elaborate on requirement of thermal analysis mentioned here, is it related to design of accumulator expansion tank	Transient thermal analysis is required to ensure that temperature requirements from clients during cyclic operation are met. This includes design of accumulator expansion tank also.
4	PART-A(II): Scope of Work and Technical Specifications	10 / Page 37	Acceptance of deliverables will be from IO -ITER also?	Yes.
5	PART-A(II): Scope of Work and Technical Specifications	7 / Page 35	We presume that PFD and PID will be updated in AVEVA diagrams on IO server . We presume that on line access of SSD will be provided by ITER _India	PIDs will be updated in AVEVA Diagrams on IO server (contractor has to purchase AVEVA diagrams license). PFDs have to be prepared either in AVEVA Diagrams or SSD. In case of SSD, licensed access to IO server will be provided.
6	PART-A(IB): Instructions to Bidders	3.4 / Page 7	Request to confirm minimum number of CV's for each discipline	Minimum as specified in management criterion 3.4.
7	PART-A(II): Scope of Work and Technical Specifications	5.1.1 20) Page 29. Design Activities	"Design and verification of anchoring system (embedded plate or post drilled plate) for supports" - Is there any EP verification tool will be provided by IO or not? All EPs will be of standard EPs or non-standard type?	EP verification tool will not be provided by IO. EPs (standard or non-standard) will be finalized during design phase.
8	PART-A(II): Scope of Work and Technical Specifications	5.1.1 22) Page 29. Design Activities	Will IO provide any template for Interface Input load data?	Yes.
9	Published GEM bidding	Page 1	Request to extend bid -submission date by at least 15 days from the bid due date due to technical requirements of the tender.	Regret to inform you that as of now, we are unable to accept your request for bid submission extension.
10	Part- A III Terms and Conditions of the Contract	5.7.1/ Page 9 Mistakes in drawings, specifications etc	If the Contractor fails to make such alterations, the Purchaser may do so at the risk and cost of the Contractor up to a maximum of 10% of the total value of the Contract .	Tender condition remains unchanged.
11	Part- A III Terms and Conditions of the Contract	15.3 a/ Page 16 Limitation of liability	We request to modify the clause as below: Except in cases of criminal negligence or wilful misconduct, the aggregate liability of the Contractor to the Purchaser, whether under the contract, in tort or otherwise, shall be restricted to the fees paid to Contractor as on the date liability arises & is intimated in writing to the Contractor not exceed the total Contract price, provided that this limitation shall not apply to the cost of rectification of imperfect work, or to any obligation of the contractor to indemnify the purchaser with respect to Intellectual Propriety Rights infringement.	Tender condition remains unchanged.
12	Part- A III Terms and Conditions of the Contract	15.4/ Page 16 Indemnity	It is requested to have two-way indemnity clause. 1. Purchaser to indemnify the Contractor for delays and/or claims which are not solely attributable to the Contractor including but not limited to Infringement of IPR / patents or delays by third parties etc. 2. Purchaser to indemnify the Contractor for any claims arising after completion of project.	Tender condition remains unchanged.
13	Part- A III Terms and Conditions of the Contract	19.1/Page 18 Termination of Contract for default	We request that Termination clause be made a 2-way clause. Contractor to have rights to terminate the agreement under the contract term sheet in the instance such as the client fails to make the payment to the within thirty (30) days from the date of the invoice.	Tender condition remains unchanged.

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14	Part- A III Terms and Conditions of the Contract	19.1.2 c) /Page 18 Termination of Contract for default	We request to modify the clause as below: To purchase from elsewhere, after (thirty) 30 days' notice to the Contractor, at risk and cost of the Contractor up to a maximum of 10% of the total contract price , the works/services, not delivered or other items/services of similar description when such deliverable exactly complying with the particulars are not in the opinion of the Purchaser readily procurable, such opinion being final, without cancelling the Contract in respect of the consignments not yet due for supply	Tender condition remains unchanged.
15	Part- A III Terms and Conditions of the Contract	21.1 a) /Page 19. Settlement of disputes	Below clause to added. However, in case of any non-settlement within such timeline, the Parties shall further attempt to resolve the Dispute through Arbitration to be conducted as per the Rules under the Arbitration and Conciliation Act, 1996 including amendments made thereof, there will be three Arbitrators one appointed by each Party & two such appointed Arbitrators appointing the third presiding Arbitrator. English shall be the language of Arbitration and New Delhi, India shall be the seat and venue of Arbitration. Cost of Arbitration shall be divided equally amongst the Parties	Tender condition remains unchanged.
16	Gem GET , Section 1	GeM SPV operates, monitors and supervises all the business transactions on the portal through the Managed Service Provider as per defined roles and responsibilities	Will there be any Managed Service Provider or related agreements?	No, there is no managed service provider or related agreements.
17	Gem GET , Section 1	The "Seller on GeM" will be either OEM (Original Equipment Manufacturer*) or Seller having authorization to sell products manufactured by the OEM in open market or Licensed manufacturer under Drugs & Cosmetics Act, 1940 or Seller without OEM authorization inline with Quadrant policy of GeM	Kindly confirm the compliance of this statement?	This clause is not applicable to this GeM bid.
18	Gem GET , Section 2	"LICENSE" shall mean by registering the Seller and by offering Product / Service details on GeM and by participating in Bids floated on GeM, the Seller grants GeM a non-exclusive, royalty-free, irrevocable, perpetual and fully sub-licensable right to use, reproduce, modify, adapt, publish, translate, distribute, and/or display publicly the content / materials / documents which has been submitted to GeM and / or GeM Buyer(s) during registration / bid participation excluding Aadhaar Number.	Is it agreeable from Delivery perspective to extend the modifiable rights to all the materials being submitted under this Bid?	This clause not applicable to this GeM bid.
19	Gem GET , Section 3(x)	Seller should ensure and make available such spare parts for a minimum period of three years from the date of expiry of warrantee period (unless otherwise specified). The individual Sellers shall ensure that the products offered in e-Bidding and/or ordered shall remain available on GeM during the bid / contract validity period	This is not applicable	This clause is not applicable to this GeM bid.
20	Gem GET , Section 3(xi)	Sellers shall offer minimum discount of 10% on the Maximum Retail Price (MRP) mandatorily on GeM Marketplace (unless otherwise specified). Sellers are free to offer higher discounts. The Seller must offer its best possible lowest price on GeM Marketplace and undertake that it would not sell or offer to sell the same product outside GeM in comparable quantity on similar terms and conditions at a price lower than Offer Price on GeM Marketplace	This clause cannot be agreed upon, we treat all our customers equally and the price is based on many factors such as jurisdiction, local taxes etc.,	This clause is not applicable to this GeM bid.
21	Gem GET , Section 3(xiv)	Section 3 (xiv) - The Seller(s) shall pass on all the benefits associated with any scheme / offer / freebies provided by the OEM on any product from time to time on an "as-is basis" to the Buyer. This obligation will also apply to OEM's directly supplying the goods.	Need clarity on the benefits stated herein.	This clause is not applicable to this GeM bid.
22	Gem GET , Section 10	Section 10 – The Goods/Services supplied under the Contract(s) shall be in accordance with the contract specifications & quality and the Goods shall be brand new and have standard Guarantee/Warrantee for one year period from the date of final acceptance by the consignee unless otherwise specified in category,specifications, specific Bid / RA.	Warranty period to be reduced based on the scope of work	Design obligations as per Section 14 of Part A(III) shall prevail over GeM GET, Section 10.

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23	Gem GET , Section 15- (i) & (ii)	(i) The original Delivery Period may be re-fixed by the Buyer without any Liquidated damages subject to Force Majeure conditions mentioned below and also on the ground/reasons of delay attributable to the Buyer / Consignee. (ii) For other cases, provided the price trend is not lower, the Delivery Period may be suitably extended for which an amount equal to the Liquidated Damages for the extended period(s) for delay in the supply of the Goods/Services after the expiry of contract delivery period /re-fixed delivery period, shall be recovered from the Seller as mentioned hereinafter for the extended period. No increase in price on any ground after the original/re-fixed delivery date shall be admissible during such extended period(s). Nevertheless, the Buyer shall be entitled to the benefit of any decrease in price on account of reduction in GST taking place during extended delivery period.	This paragraph to be added along with point (i) & (ii) in section 15 -"However, Seller shall not be responsible for and Seller shall be excused of and shall have no liability resulting from any failure to meet the timetable and deadlines or for failure to perform its obligations set out in the SOW if and to the extent and proportion caused by anything done or failed to be done by Buyer and its suppliers or its agents, and all dates by which Seller is required to perform any obligation under the SOW affected by any such cause will be deemed to be changed to a subsequent date determined by the parties, each acting reasonably and taking into account the availability of the required Seller's resources, and such change (including any additional cost, as a result of such delay) shall be implemented pursuant to a mutually agreed change control process."	Tender clause 12 of Part-A(III) takes precedence.
24	Gem GET , Section 15-(iii)	Liquidated Damages - @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period, until actual delivery or performance, as pre-estimated damages not exceeding 5% of the total contract value without any controversy/dispute of any sort whatsoever. However, in case of inordinate delay maximum deduction shall be 10% of the total contract value. Inexcusable delays of more than one-fourth (25%) of the completion period specified in the contract shall be treated as inordinate delay(s).	This section 15 (iii) to be modified as - " 0.5% of the respective milestone contract value of delayed quantity per week or part of the week of delayed period, until actual delivery or performance, as pre-estimated damages not exceeding 5% of the respective milestone total contract value without any controversy/dispute of any sort whatsoever. However, in case of inordinate delay maximum deduction shall be 10% of the total contract value. Inexcusable delays of more than one-fourth (25%) of the completion period specified in the contract shall be treated as inordinate delay(s)."	Tender clause 12.3 of Part-A(III) takes precedence.
25	Gem GET , Section 18	Limitation of Liability - In any event, neither party shall be liable for any special, incidental, punitive, exemplary or consequential damages arising out of or in connection with the Contract entered between the parties. The aggregate liability of either party, whether under the contract, in tort or otherwise, shall not exceed the total contract value, provided that this limitation shall not apply to:(i) Any obligation or claim arising out of or in connection with any third party claim of IPR infringement,(ii) In the event of any gross negligence or wilful misconduct on part of either party, as finally judicially determined by a court of competent jurisdiction. –	Agreeable considering the value of the contract	Noted.
26	Gem GET , Section 23.2.1	Indemnification: The Seller shall at all time indemnify Buyer against all suits and claims which may be made in respect of the goods/services for infringement of any right protected by patent, registration of designs or trade mark. Provided always that in the event of any claim and suit in respect of alleged breach of patent, registered designs or trade-mark being made against the Buyer, the Buyer shall notify the Seller/ Service Provider of the same who shall at its own expense either settle any such dispute or conduct and litigation that may arise there from. Buyers and Sellers agree to indemnify, defend and hold harmless GeM, its officials, Managed Service Provider (herein after individually and collectively referred to as "indemnified parties") from and against any and all losses, liabilities, claims, suits, proceedings, penalties, interests, damages, demands, costs and expenses (including legal and other statutory fees and disbursements in connection therewith and interest chargeable thereon) asserted against or incurred by the indemnified parties that arise out of, result from, or in connection with indemnity – Breach of Contract :	This is too broad and open ended and cannot be agreed upon.	Indemnification as per ATC clause no. 15.4 of Part-A(III) shall prevail over GeM GET Section 23.2.1
27	Part AIII, Section 10		30 days Prior notice for Audit is required and in no case shall the Seller be required to share information relating to its internal costing, payroll, profit margin, mark up, accounting and financial data.	OK. Noted.
28	Part AIII, Section 13	Final Acceptance	Deemed Acceptance period of 10 days should be incorporated.	Tender clause remains unchanged.
29	Part AIII, Section 15.4	Indemnity	Mitigation of Risk should be incorporated - Seller shall have no obligations with respect to any infringement claims to the extent that the infringement claim arises or results from: (i) Seller's compliance with Purchaser's specific technical designs or instructions; (ii) inclusion in a Materials of any content or other materials provided by Purchaser and the infringement relates to or arises from such Purchaser materials or provided material	Tender clause remains unchanged.
30	Part AIII ,Section 19.1.1	Termination of Contract for default	30 days prior notice is required	OK. Noted.

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31	Part AIII ,Section 19.1.2	In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may take recourse to of the following action. However, the Contractor shall continue to perform the Contract to the extent not terminated. a) ForF20:F23feiture of Security Deposit b) Recovery of Liquidated Damages (LD) as per the CONTRACT. c)To purchase from elsewhere, after (thirty) 30 days' notice to the Contractor, at risk and cost of the Contractor, the works/services, not delivered or other items/services of similar description when such deliverable exactly complying with the particulars are not in the opinion of the Purchaser readily procurable, such opinion being final, without cancelling the Contract in respect of the consignments not yet due for supply. d) To cancel the total Contract or balance portion thereof, and if so desired, to purchase or authorize the purchase of the works/ deliverables not so delivered or other deliverable of similar description, when such deliverable exactly complying with the particulars are not, in the opinion of the Purchaser, readily procurable, such opinion being final, at the risk and cost of the Contractor. –	Not agreeable to have all these as a recourse in case of termination of default, Liquidated damages and termination rights are the remedy on case of default or breach.	Tender clause remains unchanged
32	Part AIII ,Section 19.3	Termination of Contract for convenience	Notice period of minimum 60 days required in place of 30 days notice period.	OK. Noted.
33	#VALUE!	ePBG Detail / Page no. 02 of 07	As per Clause No. 8.4 of PART-A (III): Terms and Conditions of the Contract document PBG is not applicable. Please confirm applicability of PBG.	PBG is not applicable.
34	OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration	#1 Generic of Buyer Added Bid Specific Terms and Conditions / Page no. 04 of 07	Since ITER India has already defined the Scope of Work (SoW) for this contract and the Bidder is in compliance with it, any changes in scope, quantity, or duration shall be managed through the change management process.	Tender specifications takes precedence over this clause. See Section 17 of Part A(III) for management of changes.
35	1. Technical criteria 1.1 Registration certificate. 1.2 Copy of unpriced PO/ contract that shows scope of work and Work completion certificate/invoice. 1.3 Copy of technical specification, approved by client, for the pump and chiller. 1.4 Copy of P&ID approved by client. And snaps of 3D model of plant layout. 1.5 Any relevant document that shows use of code in executed project. 1.6 Copy of analysis reports, approved by client, of hydraulic analysis of piping system and piping stress analysis. 2. Financial criteria 2.1 Copy of Audited balance sheets for last 3 financial years 3. Management criteria 3.1 The BIDDER shall have ISO 9001:2015 certification. 3.2 Bidder shall have core engineering team with minimum 10 nos of mechanical / chemical engineer, 2 nos electrical engineers and 2 nos of instrumentation engineer on his payroll	PART-A(IA): Essential Eligibility Criteria	In accordance with our business policies and the confidentiality agreement with our existing customer, the PO copy and other technical details must not be shared. Kindly confirm acceptance of the same.	Bidder to submit the evidences to prove his qualification against each EEC as per Table 1-1 of Part-A(IA). In case of non-disclosure agreement with existing customers, refer note below Table 1-1.
36	PART-A(II): Scope of Work and Technical Specifications, Clause no. 5.2 and 5.4		Clause 5.2 - Preparation of Technical Specifications for Tender and Clause 5.4 Exclusions : Bidder understands that for Instrument items' procurement, preparation of Instrument Items' (tagged and bulk items) datasheets/specifications and other documents mentioned in 5.2 are part of Bidder's scope for work. These Datasheets/documents shall be part of Tender Specifications/tender bid document. Further procurement related activities/deliverables like vendor offer evaluation, Technical Bid analysis and vendor document review will be part of Design, engineering and procurement contractors' scope. ITER is requested to clarify/confirm.	The understanding is correct. The scope of contractor is limited to as mentioned in Section 5.2.

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37	PartAll_Scope of Work 1747887768	4.3.1, Pg 17 of 51. 4.4.1, Pg 23 of 51	As per the reference, only the Circulating Water Quality is mentioned for designing of Water Polisher Unit. Please clarify the feed quality & treated water quality to be considered for WPU to meet Circulating Water Quality as only partial recirculation flowrate is considered to be treated in WPU	WPU inlet water quality will be same as circulating water quality (conductivity 1 µS/cm) and treated water quality at WPU outlet will be with conductivity <0.1 µS/cm as per conceptual design. Make-up water will be with conductivity <0.1 µS/cm. Detailed parameters of make-up water quality will be provided to contractor during design phase.
38	PartAll_Scope of Work 1747887768	4.3.1, Pg 17 of 51. 4.4.1, Pg 23 of 51	There is requirement of Dissolved Oxygen of ≤50 ppb in Circulating Water. Please clarify whether Oxygen Scavenging is envisaged for the project, as the Oxygen solubility in water at 25 Deg C is 6.04 ppm. Further this requirement of ≤50 ppb & ≤10 ppb is in circulating water & will need lesser than ≤50 ppb in outlet of WPU.Please clarify.	Dissolved Oxygen removal unit is considered in the WPU to maintain dissolved Oxygen levels in circulating water as per conceptual design.
39	PartAll_Scope of Work 1747887768		Please clarify on the treatment of Wastewater generated from the WPU unit. Whether any Wastewater treatment facility is available on the site.	Reject from WPU unit is good quality water that will be used as make-up water for HRS (tertiary loop). Refer Chit no. 8 of Annexure - C of Part-A(II).
40	PartAll_Scope of Work 1747887768	4.3.1, Pg 17 of 51. 4.4.1, Pg 23 of 51	It is assumed that there is typo error in the document reference. The reference mentioned as Table 4.1 to be considered as Table 4.2. Similarly, Table 4.7 to be referred as table 4.8. Please clarify.	Confirmed there is typo error in table numbers in Section 4 of Part-A(II). The references mentioned in the document shall be considered as below. Reference Table 4-1 on page 17 should be considered as Table 4-2. References Table 4-2 and Table 4-3 on page 18 should be considered as Table 4-3 and Table 4-4. Reference Table 4-4 on page 18 should be considered as Table 4-5. Reference Table 4-5 on page 19 should be considered as Table 4-6. Reference Table 4-6 on page 19 should be considered as Table 4-7. Reference Table 4-7 on page 23 should be considered as Table 4-8. Reference Table 4-8 on page 24 should be considered as Table-4-9. Reference Table 4-9 on page 24 should be considered as Table-4-10.
41	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 1.4	This is Detail Design & Engineering stage project. Please confirm.	Confirmed. Refer Section 5 of technical specification Part-A(II) for detailed scope of work.
42	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 4.3	In CCWS-2F system, following separate packages/ Loads require Electrical power: 1> 4 Horizontal Centrifugal Pumps – 3 working and one in stand-by, with drive motor and VFD. 2> Water Polishing Unit (One stream working + one stand by). 3> 2 sets of Booster Pumps, each set have 1 working and 1 stand by pumps. 4> Heat Tracing system. Please confirm there are no additional Electrical loads in the CCWS-2F.	Refer Single Line Diagram provided in Annexure-E of Part-A(II). Since the contractor is responsible for the design, any new electrical component/items (e.g. heat tracing system) may be introduced during design phase by the contractor.
43	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 4.3.2.5 Cl. No. 4.4.2.4	The document indicates following lines: "PBS 44 cable trays and support for CCWS-2F's medium and low voltage power, site earth grid and earthing, instrumentation, controls, and communications cables." "PBS 44 cable trays and support for CHWS-H4's medium and low voltage power, site earth grid and earthing, instrumentation, controls, and communications cables." Please explain PBS 44 role in CCWS-2F & CHWS-H4. Please inform communication cables will be used for Fire alarm, PAGA, telephone, Access control.	Role of PBS44 is limited to design of cable trays required for CCWS-2F and CHWS-H4 based on requirements that will be defined by the contractor during design phase. Communication cables for fire alarm, PAGA, telephone, access control etc. are not part of this tender.
44	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 4.4, Page 22/51	In CHWS-H4 system, following separate packages/ Loads require Electrical power: 1> 3 Horizontal Centrifugal Pumps – 2 working and one in stand-by, with drive motor and VFD. 2> Water Polishing Unit (One stream working + one stand by). 3> Heat Tracing system. Please confirm there are no additional Electrical loads in the CHWS-H4.	Refer Single Line Diagram provided in Annexure-E of Part-A(II). Since the contractor is responsible for the design, any new electrical component/items (e.g. heat tracing system) may be introduced during design phase by the contractor.
45	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 5.1.3, Sr. no. 3)	We will use ETAP system study software. Please confirm. The clause indicate only Load Flow & SCC study. We understand Largest motor starting study, Arc flash study, Protective device relay coordination study not required. Please confirm.	ETAP software is acceptable. Scope of ETAP analyses covers electrical calculations, sizing, diagrams, network short circuit, load flow, relay coordination and motor starting studies (refer Section 7 of Part-A(II)).

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46	Scope of Work, GeM Bid No. GEM/2025/B/6240925	Cl. No. 5.1.3, Sr. no. 5)	The document indicates following lines: "Preparation of Cable sizing and selection calculation & Methodology for CCWS-2F and CHWS-H4 as per NFC standards" Cable & equipment selection meets EMC compatibility. Is their any specific use of NFC in cable sizing. Please explain.	NFC standards as mentioned in Section 4.2 of Part-A(II) are to be followed for cable sizing and selection methodology considering all applicable criteria specified in these standards.
47	Scope of Work, GeM Bid No. GEM/2025/B/6240925	General query	Will there be any requirement of additional shield or immunity from Nuclear Radiation on any Electrical equipment or cables?	Additional shield or immunity from nuclear radiation is not required.
48	PART-A(II): Scope of Work and Technical Specifications, Clause no. 5.2 and 5.4		ITER is requested to clarify Bidder's scope for procurement related documents/activities for the CCWS-2F and CHWS-H4 control system and its integration with overall control system.	Contractor's scope is limited to design of local control system and preparation of technical specifications required for procurement.
49	Scope of Work, GeM Bid No. GEM/2025/B/6240925,	Clause 5, Page 27 of 51	Bidder understands that Mechanical (Rotary+Static) scope is limited to Preparation of technical specification and data sheets of all equipment/items of CCWS-2F and CHWS-H4 for the detailed design tender. Further activities/deliverables like vendor offer evaluation, Technical Bid analysis and vendor document review will be a part of Detailed Engg services.	The understanding is correct. The scope of contractor is limited to as mentioned in Section 5.2.
50	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F	4.3, Page-15	The bidder believes that all equipment of CCWS-2F (including Horizontal Centrifugal Pump, Plate Heat Exchangers, nitrogen Pressurizer, Water Polishing Unit (WPU), Booster Pumps, compact brazed plate heat exchangers) are part of the engineering scope. Pls confirm our understanding or elaborate more if otherwise.	The understanding is correct.
51	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F Approx. 57 compact brazed plate heat exchangers with maximum capacity of 3 kW, in correspondence of PBS-52 and PBS-55 Cryocompressors, requiring a maximum cooling water of 28 °C.	4.3, Page-15	The bidder believes that this statement means a total of 57 compact brazed plate heat exchangers with a max capacity of 3 KW each. All 57 plate HE's are identical in all aspects. Bidder's scope includes the design of these 57 plate HE's. Client to confirm our understanding or elaborate more if otherwise.	The understanding is correct.
52	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F 4 Plate Heat Exchangers, each with a capacity of 25 MW, to release the heat load in HRS.	4.3, Page-15	The bidder believes that this statement means 4 plate heat exchangers each with a capacity of 25 MW each. All 4 plate HE's are identical in all aspects. Bidder's scope includes the design of these 4 plate HE's. Client to confirm our understanding or elaborate more if otherwise.	The understanding is correct.
53	PART-A(II): Scope of Work and Technical Specifications, Figure 4-1: Schematic of CCWS-2F	4.3, Page-16	The bidder believes that CHWS-H4 chillers, PBS26-H4/2F Coolers, PBS-52 cryocompressor & PBS-55 cryocompressor are not in scope and only tie-in engineering for these systems are to be considered. Client to confirm our understanding or elaborate more if otherwise.	CHWS-H4 Chillers are part of CHWS-H4 loop, PBS-26 H4/2F Coolers are compact brazed heat exchangers which are part of CCWS-2F loop. The above mentioned Chillers and heat exchangers are part of contractor's scope. PBS-52 cryocompressors and PBS-55 cryocompressors are client components. Contractor's scope is limited to respecting physical and functional requirements at the interface (tie-in) locations.
54	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F Piping (approx. 3.5 km running length with diameters from DN15 to DN1200) and Valves (approx. 714 nos - control valves, check valves, on-off, pressure relieving, vacuum breaker etc.).	4.3, Page-15	The bidder believes that this statement means that entire running length of CCWS-2F piping is 3.5 KM and there could be around 714 valves in the CCWS-2F loop which are part of the scope. Client to confirm our understanding or elaborate more if otherwise.	The understanding is correct.
55	PART-A(II): Scope of Work and Technical Specifications, Figure 4-1: Schematic of CCWS-2F	4.3, Page-16	Has the client developed any kind of Process flow diagrams &/or Piping & Instrumentation diagrams for CCWS-2F system, if yes, pls share them for estimation purpose.	Piping and Instrumentation Diagrams developed during conceptual design phase are provided in Part-A(II) (See Annexure -E).
56	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F	4.3, Page-15	Does the client has any material preferences for piping and equipment of CCWS 2F system OR the bidder will be suggesting the MOC during engineering phase.	The contractor has to suggest appropriate MOC during design.
57	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F	4.3, Page-15	Any kind of Heat & Mass balance studies for the CCWS-2F loop are not in the scope, client to confirm.	Heat and mass balance studies are in scope of this contract (refer sr. no. 5 of Section 5.1.1 of Part-A(II)).
58	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F	4.3, Page-15	The bidder believes that this scope of this project is for developing Basic engineering package (BEP) for CCWS-2F system from the conceptual stage that have been completed. Client to confirm our understanding.	The scope of this tender is to finalize the design based on conceptual design provided as input and to prepare technical specifications required for procurement tender. Refer section 5 of Part-A(II) for the scope of work in detail.
59	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F	4.3, Page-15	Client to list out the conceptual stage process documents of CCWS-2F system, that it will share with the bidder, in case of project award.	Refer Section 11 of Part-A(II).

2. Query No.	3. Ref. Tender Part / Section No.	4. Ref. Clause No. / Page No.	5. Description of the query	6. Response of ITER-India (Purchaser)
60	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3 Design and Configuration of CCWS-2F Heat Tracing system and thermal insulation, as required	4.3, Page-16	Client to outline why Heat tracing would be required in closed cooling loop system. What is client's preferred type for heat tracing Steam tracing or electrical tracing. Also, heat tracing is required only for lines & equipment that are in scope.	Since the project is located in France where external ambient temperatures can reach below freezing point (see Table 2-1 of part A(II)), the piping or equipment which are exposed to such ambient temperatures may have to be heat traced to avoid freezing of cooling medium. Electrical heat tracing is preferred. Heat tracing is required for lines, instruments/tubing, equipment which are exposed to extreme external ambient conditions. The requirement has to be fully assessed by the contractor during the design phase.
61	PART-A(II): Scope of Work and Technical Specifications, Clause no. 4.3.2.5 Utilities and other Interfaces	4.3.2.5, Page-20	The bidder believes that Instrument Air (IA) is available in ample quantities at site for operating the control valves, on-off valves, etc. Bidder's scope shall remain limited to tie-in engineering for additional utilities required. Client to confirm our understanding.	Control valves, on-off valves are electrically (motor) operated. Requirement of instrument air is not foreseen.
62	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	The bidder believes that all equipment of CCWS-H4 (including Horizontal Centrifugal Pump, Water cooled chillers, Plate Heat Exchanger, Water Polishing Unit (WPU), Accumulator tank) are part of the engineering scope. Pls confirm our understanding or elaborate more if otherwise.	The understanding is correct.
63	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4 Water cooled Chillers: 4 Working + 1 Standby, each with a capacity of 1.5 MWth.	4.4, Page-22	The bidder believes that this statement means a total of 5 water cooled chillers with a max capacity of 1.5 MWh each. All 5 plate HE's are identical in all aspects and each chiller consists of an evaporator and condenser. Bidder's scope includes the design of these 5 chillers. Client to confirm our understanding or elaborate more if otherwise.	The understanding is correct.
64	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4 Piping (approx. 3.2 km running length, diameters from DN 15 to DN400) and Valves (approx. 320 nos - control valves, check valves, on-off, pressure relieving, vacuum breaker etc.).	4.4, Page-22	The bidder believes that this statement means that entire running length of CCWS-H4 piping is 3.2 KM and there could be around 320 valves in the CCWS-H4 loop which are part of the scope. Client to confirm our understanding or elaborate more if otherwise.	The understanding is correct.
65	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	Has the client developed any kind of Process flow diagrams &/or Piping & Instrumentation diagrams for CCWS-H4 system, if yes, pls share them for estimation purpose.	Piping and Instrumentation Diagrams developed during conceptual design phase are provided in Part-A(II) (See Annexure -E).
66	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	Does the client has any material preferences for piping and equipment of CCWS-H4 system OR the bidder will be suggesting the MOC during engineering phase.	The contractor has to suggest appropriate MOC during design.
67	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	Any kind of Heat & Mass balance studies for the CCWS-H4 loop are not in the scope, client to confirm.	Heat and mass balance studies are in scope of this contract (refer sr. no. 5 of Section 5.1.1 of Part-A(II)).
68	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	The bidder believes that this scope of this project is for developing Basic engineering package (BEP) for CCWS-H4 system from the conceptual stage that have been completed. Client to confirm our understanding.	The scope of this tender is to finalize the design based on conceptual design provided as input and to prepare technical specifications required for procurement tender. Refer section 5 of Part-A(II) for the scope of work in detail.
69	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-22	Client to list out the conceptual stage process documents of CCWS-H4 system, that it will share the bidder, in case of project award.	Refer Section 11 of Part-A(II).
70	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4	4.4, Page-23	Client to outline why Heat tracing would be required in closed cooling loop system. What is client's preferred type for heat tracing Steam tracing or electrical tracing. Also, heat tracing is required only for lines & equipment that are in scope.	Since the project is located in France where external ambient temperatures can reach below freezing point (see Table 2-1 of part A(II)), the piping or equipment which are exposed to such ambient temperatures may have to be heat traced to avoid freezing of cooling medium. Electrical heat tracing is preferred. Heat tracing is required for lines, instruments/tubing, equipment which are exposed to extreme external ambient conditions. The requirement has to be fully assessed by the contractor during the design phase.
71	PART-A(II): Scope of Work and Technical Specifications, Clause no.4.4 Description of CHWS-H4 4.4.2.4 Utilities and other interfaces	4.4.2.4, Page-25	The bidder believes that Instrument Air (IA) is available in ample quantities at site for operating the control valves, on-off valves, etc. Bidder's scope shall remain limited to tie-in engineering for additional utilities required. Client to confirm our understanding.	Control valves, on-off valves are electrically (motor) operated. Requirement of instrument air is not foreseen.
72	Part-A(IA)	Page 5, 6	Joint Venture (JV) Participation: Kindly confirm whether participation in the form of a Joint Venture (JV) is permitted. If allowed, please clarify the eligibility criteria, structure, and documentation requirements for the JV.	Not permitted.
73	Part-A(III)	Page 9	Engagement of Sub-Consultants: Please confirm if sub-consultants are allowed for portions of the scope. If so, what are the applicable approval or qualification requirements for such sub-consultants?	Refer Section 5.5 of Part-A(III)

2. Query No.	3. Ref. Tender Part / Section No.	4. Ref. Clause No. / Page No.	5. Description of the query	6. Response of ITER-India (Purchaser)
74	Part-A(IA)	Page 5, 6	Use of International Project References: Would international (overseas) project experience be accepted as valid references for technical qualification? If yes, please clarify any format, or certification.	International project experience can be accepted as valid reference. Refer the columns 'Evidence to be submitted' and 'Documents submitted by bidder in bid (To be filled by bidder)' of Table 1-1 of Part-A(IA) for providing experience evidences.