



राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान

वेलच्चेरी - तामबरम रोड, नारायणपुरम, पल्लिकरण, चेन्नै - 800 100, भारत.

**National Institute of Ocean Technology**

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GSTIN# 33AAATN0530G1Z6



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अधिकार  
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INFORMATION

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### निविदा आमंत्रण सूचना (नि.आ.सू.)/NOTICE INVITING TENDER(NIT)

हेतु निविदा/Tender For	SOLAR PANEL FOR MOORED BUOY SYSTEMS
निविदा संख्या/Tender No	NIOT/S&P/OOS/28441/2022-23
निविदा प्रणाली/Tender Mode	Open Tender - Dual Bid
निविदा जारी होने की तारीख/Tender Issue Date	19/09/2022
निविदा बंद होने की तारीख/Tender Closing Date	06/10/2022 03:00 PM
निविदा खुलने की तारीख/Tender Opening Date	06/10/2022 03:30 PM
बोली का प्रकार/Bidding Type	Dual Bid
बोली का प्रकार एवं निविदा प्रस्तुतिकरण Bidding Type & Tender submission	Dual Part Tender comprising of Technical Bid (Part-1) and Price Bid (Part-2) should be submitted electronically through e-Wizard portal <a href="https://moes.euniwizarde.com">https://moes.euniwizarde.com</a>
निविदा प्रलेख उपलब्धता स्थान/Tender Documents available place	Tender documents can be downloaded from <a href="https://moes.euniwizarde.com">https://moes.euniwizarde.com</a> and our website <a href="http://www.niot.res.in">www.niot.res.in</a> till closing date and time of the Tender.
ई-निविदा के लिये सहायता मैनुअल/Help manual for e-tender	Bidders may download the help documents and Bidders manual kit from <a href="https://moes.euniwizarde.com">https://moes.euniwizarde.com</a> . Helpdesk number : Mr. Gagan T S, e-Wizard Team, ITI-Ltd, Bangalore, Mobile No: 91 8448288987, E-Mail: <a href="mailto:eprochelpdesk.01@gmail.com">eprochelpdesk.01@gmail.com</a>  For any issues / clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.
निविदा के निर्णय होने तक अपने प्रश्नों मेल आईडी पर भेजें./Send your queries to the email ID upto tender finalization	<a href="mailto:tendergroup@niot.res.in">tendergroup@niot.res.in</a> / <a href="mailto:gopal@niot.res.in">gopal@niot.res.in</a>

## **Bid Preparation and Tender Submission Procedure**

### **INSTRUCTION FOR BIDDERS**

The bidders are required to submit soft copies of their bid electronically on the e-Wizard Portal using valid Digital Signature Certificates. Below mentioned instructions are meant to guide the bidders for registration on the e-Wizard Portal, prepare their bids in accordance with the requirements and submit their bids online on the e-Wizard Portal. For more information bidders may visit the MoES e-Wizard Portal (<https://moes.euniwizarde.com>).

#### **1. REGISTRATION PROCESS ON ONLINE PORTAL**

- a) Bidders to enroll on the e-Procurement module of the portal <https://moes.euniwizarde.com> by clicking on the link "Bidder Enrolment".
- b) The bidders to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. This would be used for any communication from the e-Wizard Portal.
- c) Bidders to register upon enrolment, with their valid Digital Signature Certificate (Class III Certificates with signing and Encryption key) issued by any Certifying Authority recognized by CCA India with their profile.
- d) 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 DSCs to others which may lead to misuse.
- e) 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.

#### **2. TENDER DOCUMENTS SEARCH**

- a) Various built-in options are available in the e-Wizard Portal like Department name, Tender category, Estimated value, Date, other keywords, etc. to search for a tender published on the Online Portal.
- b) 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 'Interested tenders' folder.
- c) The bidder should make a note of the unique Tender No assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

#### **3. BID PREPARATION**

- a) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b) Please go through the tender document carefully to understand the documents required to be submitted as part of the bid.
- c) 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 needs to be submitted. Any deviations from these may lead to rejection of the bid.
- d) 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/XLSX/PNG, etc. formats.

#### **4. BID SUBMISSION**

- a) Bidder to log into the site well in advance for bid submission so that he/she uploads the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- b) The bidder to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- c) Bidders to note that they should necessarily submit their financial bids in the prescribed format given by department and no other format is acceptable.
- d) 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, the opening of bids, etc. The bidders should follow this time during bid submission.

- e) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data, which cannot be viewed by unauthorized persons until the time of bid opening.
- f) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- g) Upon the successful and timely submission of bids, 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.
- h) The off-line tender shall not be accepted and no request in this regard will be entertained whatsoever.

#### 5. AMENDMENT OF BID DOCUMENT

At any time prior to the deadline for submission of proposals, the department reserve the right to add/modify/delete any portion of this document by the issuance of a Corrigendum, which would be published on the website and will also be made available to the all the Bidder who has been issued the tender document. The Corrigendum shall be binding on all bidders and will form part of the bid documents.

#### 6. ASSISTANCE TO BIDDERS

- a) 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.
- b) Any queries relating to the process of online bid submission or queries relating to eWizard Portal, in general, may be directed to the 24x7 e-Wizard Helpdesk.

The contact number for the helpdesk is Gagan (8448288987/89/epochelpdesk.01@gmail.com), Birendra (8448288988/94/epochelpdesk.02@gmail.com), Rahul Singh (8448288982), Abhishek Kumar (9355030617), Tariq (9355030608),9355030604,9122643040,9504661237

- 7. The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of the bid(s).
- 8. The bid should be submitted through e-Wizard portal (<https://Moes.euniwizarde.com/>) only.

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## **INTRODUCTION**

National Institute of Ocean Technology (NIOT) is an autonomous body under the Ministry of Earth Sciences, and is involved in developing technology for utilizing ocean resources in an eco-friendly manner.

### **Notice Inviting Tender Document**

e-bid is invited for **SOLAR PANEL FOR MOORED BUOY SYSTEMS** for NIOT, Chennai as per the specification enclosed.

#### **1.Submission of bids**

Bidders are advised to submit their quotation in two parts as detailed below electronically through e-Wizard portal <https://moes.euniwizarde.com> before the deadline for submission of Bids prescribed in the front page of this NIT.

**Part-1 should contain Techno-Commercial Bid** and duly signed blank price bid (without indicating the cost) and Technical specification documents. **The price/cost should not be revealed in the technical bid, if the price/ cost is revealed, the tender will be treated as invalid.**

**Part-2 should contain only the price bid indicating the cost.**

**2. This NIT** shall form part of the Order / Contract document.

**3. Terms and conditions indicated in the NIT** shall be superseded by the terms and conditions mentioned in the Special conditions of contract (SCC) indicated.

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#### **INSTRUCTION TO BIDDERS:**

**4. Security:** Any information / material / document supplied along with this tender or after placement order should not be disclosed or copied without written permission from NIOT.

**5. Contacting NIOT:** No correspondence / discussion / visits whatsoever will be entertained on the subject unless specifically called by this office after opening the tender for clarifications. Any violation of this will render the quotation invalid and the firm is liable to be removed from our approved vendor list. However if vendor requires any clarification on the bid, the query may be mailed to the respective mail ID at the top of NIT.

**6. Vendor Registration:** The vendor can apply for Password by submitting few of their company particulars (one time) in to NIOT vendor registration menu of our website and get the password through email to download the tender document from NIOT website for free of cost. However to become a registered vendor of NIOT, vendor should furnish the signed hardcopy of all the details submitted on line and get the Vendor Registration Certificate of NIOT after the appropriate evaluation by NIOT.

**7. Tender Opening:** All the tenderers can participate in the tender opening with proper authorization letter from the respective Company.

#### **8. Pre-Qualification.**

##### **Commercial**

a) Submission of GST Registration Certificates as applicable.

**b) Make in India Status :**

**i) The goods / items quoted are manufactured in India and not imported from any country.**

(Or)

**ii) If the item/goods are partially imported, specify your category:**

(Only Class I and II categories of vendors are eligible to quote. The self certification form as per format should be enclosed along with bid).

- CLASS I Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content greater than or equal to 50%.

(Or)

- CLASS II Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.

**9. Default in Performance:** If any Vendor is not successfully discharging their contractual obligations against the order / contract placed on them by NIOT within the agreed time limit, (OR) if there is any deficiency in performing such obligations, NIOT reserves the right to suspend such Vendor from their participation in future tenders of NIOT for a minimum period of one year. Even after revoking the suspension period the Vendor's performance still continues to be the same without any improvement, NIOT reserves its right to BAN such Vendor permanently from participation in all the tenders of NIOT.

**10. Goods** shall not be supplied without an Official supply order

**11. Order Acceptance:** The successful bidder should submit order acceptance within 7 days from the date of order.

**12. Change of Name after award:** Request / intimations with regard to change of name of the contract or constitution of the contractor after the tender opening or award of contract shall not be allowed as a matter of right. The bidders / contractors are required to submit all relevant documents with regard to change of name or/and change of constitution and the circumstances leading to such change beforehand. It shall be the discretion of NIOT to proceed with the contract after such changes and in case, NIOT decides to proceed with the contract, it may require the bidder / contractor to execute further agreements with regard to execution / implementation of the contract.

**13. One Bid per Bidder:** A firm shall submit only one bid either individually or as a partner of a joint venture. A firm that submits either individually or, as a member of a joint venture, more than one bid will result in rejection of all the bids.

**BIDDING CONDITION**

**14. Due date Extension, Corrigendum to NIT:** Any corrigendum including due date extension for NIT, Pre-bid minutes of meeting if any will be notified in NIOT website. Hence bidders are requested to watch our website for such due date extension and corrigendum if any.

**15. In case of the unscheduled holiday in Chennai** being declared on the prescribed closing/opening day of the tender, the next working day will be treated as the scheduled prescribed day of closing/opening of the tender.

**16. Unsolicited correspondences:** NIOT will not entertain any unsolicited correspondence or queries on the status of offer against this tender.

**17. Submission of tender** by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant etc. will be issued to him by NIOT and local conditions and other factors bearing on the execution of the works. Conditional offers are liable for rejection

**18. Bid Validity:** Bids shall remain valid and open for acceptance for a minimum period of **120** days or for the period indicated in the SCC of this NIT whichever is more from the date of opening of Bids. A Bid valid for shorter period may considered as unacceptable and liable for rejection.

**19. Bid validity extension:** In exceptional circumstances, prior to expiry of the original Bid validity period, NIOT may request the Bidder for a specified extension in the period of validity. The request and the responses thereto shall be made in writing. A Bidder agreeing to the request will not be required nor permitted to modify his bid, and will be required to extend the validity of his Bid Security correspondingly.

**20. Conditional offers/** quotations shall not be accepted.

**21. Signing of bids:** Each page of the tender and tender document shall be signed by the bidder. Unsigned bid is liable for rejection.

**22. Site Visit:** If any site visit is made, it should be formally documented and enclosed with the offer.

**23. Arithmetical errors** will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the Contractor does not accept the correction of errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

**24. The broad configuration** / specification of the proposed purchase / work are given. Bidders are required to keep their proposal strictly as per the specification prescribed.

**25. Acceptance of bids:** NIOT may accept or reject any/all tenders including the lowest tender without assigning any reasons whatsoever. NIOT also reserves its right to accept any tender in part or parts only with such conditions as it may prescribe. NIOT is not bound to accept the lowest tender. NIOT expects full technical compliance and expects full scope of integrated supply as per tender specification and do not accept partial tenders.

**26. The compliance sheet** with reference to the specifications should be furnished against each parameter while submitting the quotation, which is absolutely necessary. THE TENDERER SHALL SUBMIT TECHNICAL & COMMERCIAL COMPLIANCE SHEETS ALONG WITH THEIR OFFER. TENDERS WITHOUT COMPLIANCE SHEETS WILL NOT BE EVALUATED. The Price bid should be unconditional. Care should be taken while furnishing the information in the compliance sheet based on which the evaluation will be done.

**27. Bid or modification to bids received after closing date and time:** shall not be considered. Such modified bid together with original bid will be summarily rejected. Modification to the bid after opening the bid will not be considered unless specifically requested for by NIOT.

**28. Canvassing:** Exerting pressure and/or offering inducement in any form by the bidder or by any other person on behalf of the bidder shall disqualify the bid and lead to its rejection.

**29. Award:** NIOT shall place the Purchase order/ work order either consolidated or separately for each of the title.

**30. Commercial compliance** as per the NIT shall be furnished along with the offer.

**31. Unrealistic bids** with either cost which is impossible to achieve or for bidders who show that they are completely inexperienced or have completely inappropriate equipment will be rejected.

**TERMS AND CONDITIONS GOVERNING THE CONTRACT**

**32. Quote value:**

Quotations should be for free delivery to this Institute. Consignment freight and insurance charges by passenger train / Road transport must be indicated. If EX-Godown, packing forwarding freight and insurance charges must be indicated separately. The term 'Extra' shall be avoided.

**33. Guaranteed time of delivery – specific performance of contract:** The time of delivery including testing and handing over in satisfactory condition is the essence of the contract and the shipment should be effected as per the schedule given in SCC. In the event of part supply, NIOT shall withhold the entire payment until the whole of the supply as per the order is delivered. In case if the delivery schedule indicated in the SCC is not stipulated as essential criteria, Contractor may indicate the period of delivery required for them.

**34. Extension of delivery period:** If the completion of systems / components is delayed for reasons of force majeure such as acts of God. Acts of Public enemy, acts of Government, fires, floods, epidemics, quarantine restrictions, illegal strikes and freight embargoes, the Contractor shall within 3 days from the date of such occurrence, give notice to NIOT in writing of his claim for extension of delivery period. NIOT on receipt of such notice may agree to extend the Contract delivery date as may be reasonable but without prejudice to other terms and conditions of the contract. Unless the extended delivery period is agreed by NIOT in writing, contractor cannot claim the extension of delivery time as a matter of right. NIOT shall have the right to either cancel/extend the order validity/ levy LD as appropriate.

**35. Delay in Completion / Liquidated Damage (LD):** If the Contractor shall fail to deliver the systems / components within the time specified in the Contract, NIOT shall recover from the Contractor as liquidated damages a sum of **0.5%** (½ percent) of the contract price of the undelivered systems /components for each week of delay (or) part thereof. The total liquidated damages shall not exceed **5%** (5 percent) of the contract price of the unit or units so delayed. Systems / components will be deemed to have been delivered only when all essential components parts are also delivered. If any essential components are not delivered in time, the entire system / components will be considered as delayed until such time the missing parts are delivered.

**36. Partial Delivery:** In general all supplies are to be delivered as per the schedule of the contract only. In case if NIOT's request / vendor's convenience part supplies will be accepted only on issue of amendment to the order / contract on the delivery schedule. Part supply without written order will not be accepted. However payment will be effected as stipulated in order / contract.

**37. Insurance:** The Goods supplied under the Contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.



**38. Service contract Insurance:**

Contractor shall take out and keep in force adequate insurance to cover all risks. (a) In respect of their personnel deputed to work under the Contract. (b) In respect of their own as well as hired equipment (to the extent of their insurance interest) tools, materials, and operational facilities used during the entire period of their engagement in connection with the Contract to the insurable value of equipment, manpower and other things. NIOT shall have no liability whatsoever in this regard. Such insurance policies of the Contractor shall embody the following clauses  
"The Insurers hereby waive their rights of subrogation against National Institute of Ocean Technology, or any of their employees or their subsidiaries, affiliates or assigns."

**39. Transportation:** Where the Contractor is required under the Contract to transport the Goods to a specified place of destination within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Contractor, and the related cost shall be included in the Contract Price.

**40. Risk Purchase:** If the contractor fails to deliver the stores or any installment thereof within the period fixed for such delivery or at any time repudiates the contract before expiry of such period, NIOT is entitled to cancel the contract and source purchases from third parties the stores not delivered at the risk and cost of the defaulting contractor.

**41. Incidental Services**

The Contractor may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) Performance or supervision of the on-site assembly and / installation and commissioning of the supplied Goods;
- (b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods;  
Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Contractor of any warranty obligations under this Contract; and
- (e) Training of NIOT's personnel, at the Contractor's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.

**42. Spare Parts**

As specified in the SCC, the Contractor may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Contractor for at least 5 years from the date of acceptance:

- (a) such spare parts as NIOT may elect to purchase from the Contractor, providing that this election shall not relieve the Contractor of any warranty obligations under the Contract; and
- (b) In the event of termination of production of the main product and spare parts:
  - (i) advance notification to NIOT of the pending termination, in sufficient time to permit NIOT to procure needed spare part requirements; and
  - (ii) following such termination, furnishing at no cost to NIOT, the blueprints, drawings and specifications of the spare parts, if requested.

**43. Warranty:** The Contractor warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Contractor further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by NIOT's Specifications) or from any act or omission of the Contractor, that may develop under normal use of the supplied Goods in

the conditions prevailing in the country of final destination.

This warranty shall remain valid for 12 months after the installation of the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or for 18 months after the date of shipment from the place of loading whichever period concludes earlier, unless specified otherwise in the SCC. The warranty certificate should be furnished in the prescribed format in your letterhead. If the Vendors standard warranty is more than 12 months the same shall be extended to NIOT.

NIOT shall promptly notify the Contractor in writing of any claims arising under this warranty.

Upon receipt of such notice, the Contractor shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to NIOT other than, where applicable, the cost of inland delivery of the repaired or replaced Goods or parts from ex-works or ex-factory or ex-showroom to the final destination.

If the Contractor, having been notified, fails to remedy the defect(s) within the period specified in SCC within a reasonable period, NIOT may proceed to take such remedial action as may be necessary, at the Contractor's risk and expense and without prejudice to any other rights which NIOT may have against the Contractor under the Contract. Also such failure shall lead to suspension of vendor from participation as deem fit by NIOT.

**44. Payment: NO ADVANCE PAYMENT WILL BE MADE.** Payment will be made after the supply and acceptance of materials by NIOT.

**45. Force Majeure:**

For purposes of this Clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of NIOT either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Contractor shall promptly notify NIOT in writing of such conditions and the cause thereof. Unless otherwise directed by NIOT in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**46. Discounts:** Bidders are advised not to indicate separate discounts. Discounts, if any, should be merged in the rates against the quoted items.

**47. Price:**

The price shall include but not limited to

- a) Costs of goods covered in this contract.
- b) Taxes.
- c) HSN code of the product.
- d) Transportation and packing cost
- e) Cost of handling, documentation, freight, insurance from contractor's ware house up to NIOT warehouse, installation and commissioning of the equipment when part of contractual obligation.
- f) Charges for all testing
- g) Cost towards third party inspection at various stages as set forth in the contract.
- h) Cost of Installation, testing, commissioning and handing over of goods as set-forth in the contract.
- i) Cost of Training of NIOT officials as set forth in the contract.
- j) Cost of Books, manuals, software as set-forth in the contract.

The Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the goods he proposes to supply under the contract strictly as per price bid format of tender.

#### **48. Taxes and duties:**

##### **I Payable only for the Indian bidder:**

**a) GST Registration:** You may submit a copy of GST Registration certificate along with your quotation.

##### **II Deductibles:**

**a) Deduction of Indian Income Tax Deduction at Source for the Indian bidders:** TDS will be deducted as applicable. Valid Permanent Account Number (PAN) is mandatory.

**b) GST-TDS:** NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor. TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided.

Name of the Organization	NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
Address	NIOT Campus, VelacheryTambaram Main Road, Pallikaranai, Chennai-600100, TamilNadu.
Email	<a href="mailto:postmaster@niot.res.in">postmaster@niot.res.in</a>
Telephone No.	044-66783300
Tax Deductor GSTIN	33AAATN0530G1Z6

**49. Arbitration / Disputes**—In the event of any dispute, difference, interpretation or application relating to this agreement arises, the same shall be settled amicably by the parties. In case the dispute or differences could not be settled amicably, the same shall be referred for adjudication through Arbitration by an Arbitrator to be appointed by the Director, NIOT.

The Arbitration shall be concluded in accordance with the provisions of Arbitration & Conciliation Act, 1996 or any statutory modifications or reenactment thereof and the rules made their under and for the time being in force shall apply to the arbitration proceedings. Venue of such arbitration shall be at Chennai in India. The language of arbitration proceedings shall be English. The Arbitrator shall make a reasoned award (the "award"), which shall be final and binding on the parties. The cost of the arbitration shall be shared equally by the parties to the contract. However, expenses incurred by each party in connection with the preparation, presentation etc., shall be borne by each party.

#### **50. SUBMISSION OF TECHNICAL DOCUMENT**

Specifications are basic essence of the product. It must be ensured that the offers are strictly as per our specifications. At the same time it must also be kept in mind that merely copying our specifications in their quotation shall not make firms eligible for consideration. The documentary evidence of conformity of the goods and services to the Bid document may be in the form of literature, drawings and data and shall consist of:

a. A list giving full particulars including available sources and current prices, of spare parts, special tools etc., necessary for the proper and continuing functioning of the goods for a period of two years, following commencement of the use of the goods by NIOT; and

- b. An item-by-item commentary on NIOT's Technical specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical specifications.
- c. For purposes of the commentary to be furnished pursuant to above, the Bidder shall note that standards for workmanship, material and equipment, and reference to brand names or catalogue numbers designated by NIOT in its Technical specifications are intended to be descriptive only and not restrictive. They may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to NIOT's satisfaction that the substitutions ensure substantial equivalence to those designated in the technical specifications. Technically unsuitable offers, offers not confirming to tender schedule shall be rejected.

The broad configuration / specification of the proposed purchase / work are given. Bidders are required to keep their proposal strictly as per the specification prescribed  
Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) duly signed by the authorized official should be sent along with the quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the Contractor's expenses. To explain the product offered, if there is no Technical Literature / catalogue, offer is liable for rejection. Offer must contain all relevant technical details, test procedure etc. Any erasures / over writing shall be counter signed by the person who is signing the bid. Any interlineations, erasures or overwriting shall be valid only if the person or persons signing the bid sign them.

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### **Documents Establishing Bidder's Eligibility and qualifications**

**51. Eligibility:** The bidder shall furnish, as a part of his bid, documents establishing the bidders' eligibility to bid and his qualification to perform the contract if his bid is accepted. The bidder must possess TIN No., PAN No. and any other registration to claim the statutory levies.

**52. Authorisation:** The bidder is qualified only when he is the original manufacturer or established dealer with original manufacturer's authorization letter to quote, sell and service the products offered as per the prescribed format in our web site along with agency agreement.

**Commercial Terms Compliance sheet (The format should not be altered)**

<b>Sl. No</b>	<b>Particulars</b>	<b>Yes</b>	<b>No</b>	<b>offer Page Ref</b>
1	Whether every page of the tender document is signed for acceptance of tender and uploaded along with the offer?			
2	Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated)			
3	Whether accepted to submit the order acceptance within 7 days from the date of order?			
4	Whether Quote is valid for <b>120 days</b> from the due date of tender or time specified in the tender document whichever is later?			
5	Whether <b>payment terms</b> of the tender is complied with?			
6	Whether the bidder satisfies the Pre- qualification criteria :			
a)	Copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
b)	Make in India Status :			
	i) The Goods / items quoted are manufactured in India and not imported from any country.  (or)			
	ii) If the item/goods are partially imported, specify your category:			
	- CLASS I Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content greater than or equal to 50%.  (or)			
	- CLASS II Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.			
	<b>Only Class I and II categories of vendors are eligible to quote.</b>			
7	Whether self certification form is enclosed (For Class I & Class II supplier only)?			
8	Whether price is <b>FOR</b> NIOT, Chennai?			

9	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
10	Whether the <b>authorization letter</b> exclusively for this tender, from the original manufacturer is enclosed?			
11	a) Whether <b>warranty</b> period accepted as per tender?			
	b) Whether submission of <b>warranty</b> certificate in the prescribed format is acceptable?			
12	Whether the <b>delivery period</b> is clearly indicated, and is as per tender?			
13	Whether the cost of installation / inspection / testing explicitly mentioned in the quote?			
14	Whether Past track record of quality and service is enclosed?			
15	Whether list of deliverables attached and comply as per tender?			
16	Whether liquidated damage clause is acceptable in case of delayed supply?			
17	Whether the tender is fully complying with tender specification/Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation?			
18	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
19	Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.			
20	Whether only technical details in support of vendor's claim without price information is uploaded under technical bid (Part-1)			
21	Whether HSN code of the product has been indicated?			
22	<b>Whether your firm is registered under MSME/ NSIC/DIC/UAM? If yes enclose copy of registration</b>			

**Format for Self Certification under Preference to  
“MAKE IN INDIA” Policy**

(Refer Clause No. 2.8 & 3.4.4 of ITT)

**CERTIFICATE**

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s\_\_\_\_\_ (supplier name) are local supplier meeting the requirement of minimum **Local Content** \_\_\_\_% as defined in above orders for the material against Tender No\_\_\_\_\_

Details of location at which local value addition will be made is as follows:

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

Seal and Signature of Authorized Signatory

**PRICE BID FORMAT**

<b>Sl.No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Unit rate</b>	<b>Amount</b>
1.	40 W Solar Panel – Type 1	150	Nos.	The price/cost should not to be revealed in the technical bid, if the price/ cost is revealed, the tender will be treated as invalid.	
2.	20 W Solar Panel – Type 2	50	Nos.		
3.	GST as applicable	%			
4.	Packing charges, if any		Lumpsum		
5.	Freight & Insurance charges, if any		Lumpsum		
6.	Any other charges, (Details to be indicated)	Lumpsum			
Total Amount					
(Amount in words. _____)					

**Note:**

**# *The goods / items quoted are manufactured in India and not imported from any country.***

@ NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor. (See clause No.48 II (d)) TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided if the value exceeds Rs. 2.5 lakhs

**We agree to all applicable terms and conditions listed in the tender document.**

**Signature with Seal**



## TECHNICAL SPECIFICATION FOR SOLAR PANEL FOR MOORED BUOY SYSTEMS

### 1.0 Introduction

The Ocean observation system of National Institute of Ocean Technology is involved in deployment and maintenance of moored buoy networks at various locations in Bay of Bengal and Arabian Sea. These buoy systems are capable of measuring a variety of meteorological parameters and sub-surface ocean parameters. In order to power the buoy system, rechargeable lead acid batteries are used. Solar panels are used to charge the lead acid batteries. The detailed technical requirement for the solar panel is mentioned below.

### 2.0 Technical Specification – Type 1 40W

Parameter	Typical
Type	Monocrystalline
Power	40W
Voltage at maximum power	17 V
Current at maximum power	2A or better
Voltage (open circuit)	20 V or better
Current (short circuit)	2.3A or better
Efficiency	>15%
Operating Temperature	0-50°C
Junction box	IP67 rated. Reverse polarity protection( using diode).High current protection using fuses
Weight	~5kg
Solar Panel Dimension	420mm X 720mm X 30mm. The solar panel should be fixed on the marine grade aluminium angle (30 X 30 X 3mm) as per attached drawing NIOT/OOS/MBS-SP/13

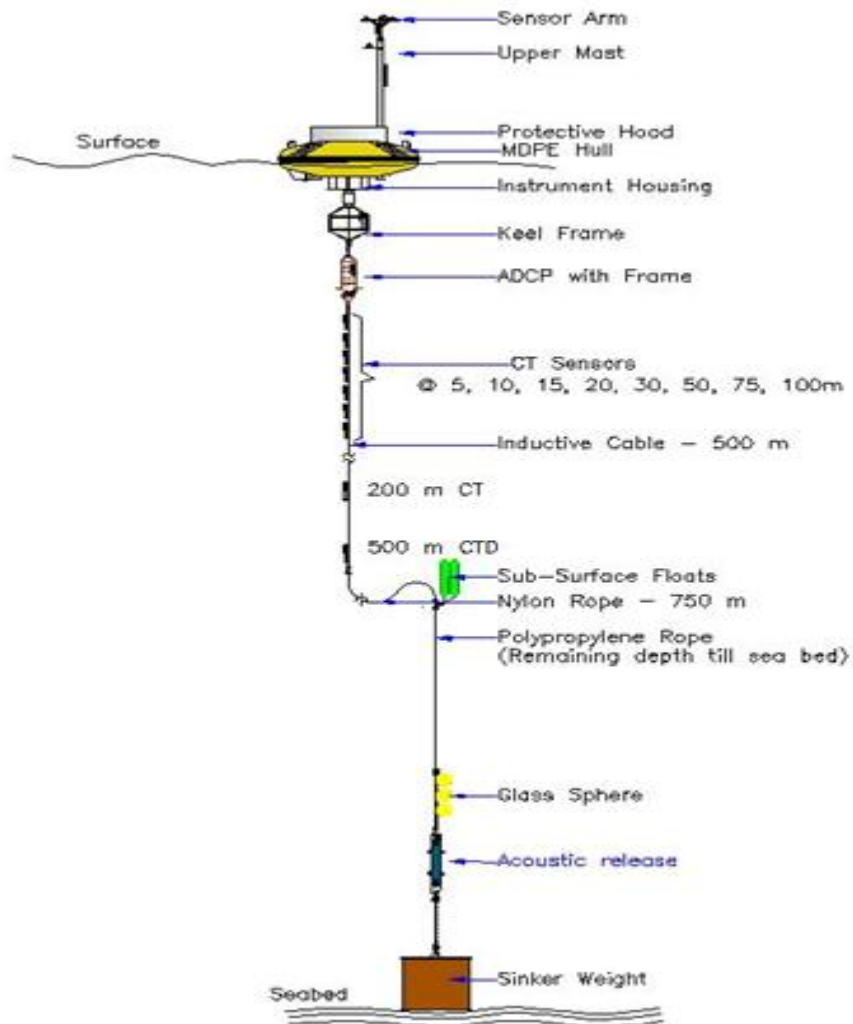
### Type II – 20W

Parameter	Typical
Type	Monocrystalline
Power	20W
Voltage at maximum power	17V or better
Current at maximum power	1.2A or better
Voltage (open circuit)	20 V or better
Current (short circuit)	1.3A or better
Efficiency	>15%
Operating Temperature	0-50°C
Junction box	IP67 rated. Reverse polarity protection( using diode).High current protection using fuses
Weight	~ 4kg
Solar Panel Dimension	458 mm X 538 mm X 40mm as per attached diagram NIOT/OOS/FRP-SP/14

- This panel should be suitable for deployment in sea, so it should come with protection from sea water corrosion and harsh marine weather condition. The material should be marine grade aluminium.
- Reverse polarity protection should be included in the junction box.
- Dimension should exactly compile with the drawing provided herewith to match with our existing buoy system of NIOT.
- The solar panel will be interfaced and tested with NIOT buoy system.

### 3.0 Location of Solar panels in NIOT data buoy system

The schematic of our Data buoy system and the location of solar panel is shown below. The Solar panel will be subjected to continuous water splash and it should be built using marine grade materials for sustained operation of minimum 1 year



#### **4.0 Deliverables**

<b>Description</b>	<b>Quantity</b>
40w Solar Panel- Type 1	150 Nos
20W Solar Panel – Type II	50 Nos

#### **5.0 Price Validity**

Quote validity should be provided minimum for 120 Days.

#### **6.0 Warranty**

12 months from the date of supply and acceptance of materials by NIOT.

#### **7.0 Delivery Period**

6- 8 weeks from the date of acceptance of purchase order.

#### **8.0 Supplier Selection criteria:**

The proposed type of solar panels should be supplied to coastal installations and certificate from end user for atleast one year satisfactory performance to be provided.

The bids which satisfied the supplier selection criteria will alone be consider for evaluation.

## TECHNICAL COMPLIANCE SHEET

<b>Technical Specification</b>		<b>Bidder's Compliance (YES / NO)</b>
<b>Type 1- 40W</b>		
<b>Parameter</b>	<b>Typical</b>	
Type	Monocrystalline	
Power	40W	
Voltage at maximum power	17 V	
Current at maximum power	2A or better	
Voltage (open circuit)	20 V or better	
Current (short circuit)	2.3A or better	
Efficiency	>15%	
Operating Temperature	0-50°C	
Junction box	IP67 rated. Reverse polarity protection(using diode).High current protection using fuses	
Weight	~ 5kg	
Solar Panel Dimension	420mm X 720mm X 30mm. The solar panel should be fixed on the marine grade aluminium angle (30 X 30 X 3mm) as per attached drawing NIOT/OOS/MBS-SP/13	
<b>Type II – 20W</b>		
<b>Parameter</b>	<b>Typical</b>	
Type	Monocrystalline	
Power	20W	
Voltage at maximum power	17V or better	
Current at maximum power	1.2A or better	

<b>Technical Specification</b>		<b>Bidder's Compliance (YES / NO)</b>
Voltage (open circuit)	20 V or better	
Current (short circuit)	1.3A or better	
Efficiency	>15%	
Operating Temperature	0-50°C	
Junction box	IP67 rated. Reverse polarity protection (using diode).High current protection using fuses	
Weight	~ 4kg	
Solar Panel Dimension	458 mm X 538 mm X 40mm as per attached diagram NIOT/OOS/FRP-SP/14	
	<ul style="list-style-type: none"> <li>• This panel should be suitable for deployment in sea, so it should come with protection from sea water corrosion and harsh marine weather condition. The material should be marine grade aluminium.</li> <li>• Reverse polarity protection should be included in the junction box.</li> <li>• Dimension should exactly compile with the drawing provided herewith to match with our existing buoy system of NIOT.</li> <li>• The solar panel will be interfaced and tested with NIOT buoy system.</li> </ul>	
<b>Location of Solar panels in NIOT data buoy system</b>		
The schematic of our Data buoy system and the location of solar panel is shown above. The Solar panel will be subjected to continuous water splash and it should be built using marine grade materials for sustained operation of minimum 1 year.		
<b>Deliverables</b>		
40w Solar Panel- Type 1	150 Nos	
20W Solar Panel – Type II	50 Nos	
<b>Warranty</b>		
12 months from the date of supply and acceptance of materials by NIOT.		
<b>Delivery Period</b>		
6- 8 weeks from the date of acceptance of purchase order		

<b>Technical Specification</b>	<b>Bidder's Compliance (YES / NO)</b>
<b>Supplier Selection criteria</b>	
The proposed type of solar panels should be supplied to coastal installations and certificate from end user for atleast one year satisfactory performance to be provided.	
<p>The bidder should submit the supportive documents for the above points and bids without the supportive documents will not be considered for the further process.</p> <p>The bids which satisfied the supplier selection criteria will alone be consider for evaluation.</p>	