



ODISHA RENEWABLE ENERGY DEVELOPMENT AGENCY

S-3/59, MANCHESHWAR INDUSTRIAL ESTATE

Bhubaneswar-751010, ODISHA

Website: www.oredaodisha.com, Email: ceoreda@oredaorissa.com

EoINo.:243, Dated:20.01.2024

Expression of Interest (EOI) for Design, Engineering and retrofitting the existing diesel/petrol powered 28 nos. of tourist boats and 100 nos. of fishing boats for conversion into solar/electric powered boats along with Comprehensive Maintenance for Two (2) years at various places of the Chilika Lake, Odisha

Contact details:

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha.

Phone: (0674) 2588260, 2586398, 2580554, Fax: 2586368

Email: ceoreda@oredaorissa.com

Website: <http://oredaodisha.com/>

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DETAILED NOTICE INVITING EXPRESSION OF INTEREST (EOI)

EOINo.:243, Dated:20.01.2024

Expressions of Interest (Eoi) are invited from reputed boat/solar boat manufacturers / marine electric propulsion system integrators ("Participants") of for sharing their experiences and technical know-how about various aspects of converting existing tourism and fishing boats to solar powered electric boats such as design, capacity, technical specification, maintenance requirements, etc. and as per the scope of work requirements in connection with "Solarization of Chilika" a project being implemented in Chilika, Odisha.

The Schedule of Events is given below:

Sl. No.	Events	Schedule
1.	Date of publication of EOI on E-procurement Website and OREDA Website	20.01.2024
2.	Due date of pre bid query submission	29.01.2024, Time: 5:00 PM
3.	Date and time of pre-bid meeting through virtual mode https:// meet.google.com/ior-vzqg-jsj	31.01.2024, Time: 12.30 PM
4.	Due date and time for submission of hard copies of Technical Bid	15.02.2024, Time: 5:00 PM
5.	Due date for physical/ online presentation of the response made by the participants	To be intimate later
6.	Tentative date and time for the opening of Technical Bid	To be intimate later

The EOI providing requisite details about the bidding process shall be made available on OREDA's Website (<http://oredaodisha.com/>) on or before the due date mentioned above. The Bidders may write to us at the email id ceoreda@oredaorissa.com, at any time during the office hours for any additional information.

The selected participants will be required to make online presentations about their products and services as per schedule to be intimated subsequently.

Note: OREDA reserves the right to reject or accept any or all applications, cancel/withdraw the EOI process without assigning any reason whatsoever and in such case; APPLICANT shall not have any claim arising out of such action.

-Sd-
Chief Executive

Disclaimer

To whomsoever it may concern, kindly note the following:

- This EOI is meant for the exclusive purpose of bidding against this EOI and shall not be transferred, reproduced, or otherwise used for purposes other than that for which it is specifically issued.
- Though adequate care has been taken for the preparation of this EOI, the Bidder shall satisfy itself that the EOI is complete in all respect. Intimation of any discrepancy shall be given to OREDA immediately. If no intimation is received from any Bidder in their pre-bid queries, it shall be considered that the EOI is complete in all respects and has been accepted by the Bidder.
- OREDA reserves all the right to modify, amend, or supplement this EOI by issuing Addendum from time to time in the interest of the Project.
- OREDA reserves all the right to extend the timelines mentioned in the Schedule of Events of EOI by issuing Corrigendum from time to time in the interest of the Project.
- While the EOI has been prepared in good faith, neither OREDA nor OREDA's employees or advisors make any representation, warranty, express or implied or accept any responsibility or liability, whatsoever, in respect of any statements or omissions or absence herein, or the accuracy, completeness or reliability of the information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability, and completeness of this EOI, even if any loss or damage is caused by any act or omission on OREDA's part.

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1. Bid Data Sheet (BDS)

1.1. Specific provisions of ITB

BDS Clause reference	Detailed Clause
1.1.1.	Name of the Project: Expression of Interest for Design, Engineering and retrofitting the existing diesel/petrol powered 28 nos. of tourist boats and 100 nos. of fishing boats for conversion into solar/electric powered boats along with Comprehensive Maintenance for Two (02) years at various places of the Chilika Lake, Odisha EOI no.: [xxx] dated [20.01.2024]
1.1.2.	The pre-bid meeting shall be conducted through an online pre-bid meeting.
1.1.3.	EOI validity period: One hundred and eighty days (180) Days from the last date of Bid submission.
1.1.4.	Procedure for submission of Bid: a) The EOI response shall be submitted to “ceoreda@oredaorissa.com” in soft copy specifying “EOI response for Retro fitment of boats” and in hard copy either through post or by hand.

2. Scope of Work (SOW)

2.1. About the Project

2.1.1. Introduction

The Odisha Renewable Energy Development Agency (OREDA) under the department of Energy, GoO is the state nodal agency with a view to popularize the exploitation and use of renewable energy resources in the State. Over last 39 years OREDA is being pioneer in implementing renewable energy-based solutions across Odisha. With increasing mandate and requirement about reduction of carbon footprint OREDA is assisting other state departments in planning and implementing the decarbonisation strategies.

Chilika Lake, situated in the eastern part of India, is a biodiversity site and is blessed with distinct assemblage of oceanic and fresh water. Being a blue lake lagoon, it is house to many migratory birds during the winter season and house of some endangered species of Dolphins. The lake is having extremely rich fishery resources helps in generating instant employments and livelihoods to many fishers and non-fishers (dependent on tourism) residing in and around it. The boat motorization has resulted in climate vulnerability. To address the climate challenge and reducing the noise, water, and air pollution the Government of Odisha, wants to transit the water mobility sector in Chilika to clean mobility solutions.

2.1.2. Scope of Work

This Scope of Work shall be for the purpose of selection of contractor(s) to Expression of Interest for Design, Engineering and retrofitting the existing diesel/petrol powered 28 nos. of tourist boats and 100 nos. of fishing boats for conversion into solar/electric powered boats along with Comprehensive Maintenance for Two (02) years at various places of the Chilika Lake, Odisha. The pilot implementation of retrofit boats shall be collectively called the "Project".

2.1.3. The summary of the Project is mentioned below:

Project details	Entity	No of boats for retro fitment
Pilot project:	OTDC	15
Design, Engineering and retrofitting the existing diesel/petrol powered 28 nos. of tourist boats and 100 nos. of fishing boats for conversion into solar/electric powered boats along with Comprehensive Maintenance for Two (02) years at various places of the Chilika Lake, Odisha	Chilika Development Authority	13
Design, Engineering, retro fitment, of existing fishing boats with solar powered electric propulsion system, including Comprehensive Maintenance for Five (5) years at various places of the Chilika Lake, Odisha	Fisheries Department	100 Individual fishing boats
Cumulative no of boats		128

2.1.4. Intent of Expression of Interest (Eoi)

The objective of this Eoi is to identify the interested agencies who wish to retrofit existing diesel/petrol operated boats to solar powered electric boats.

- To develop an understanding of the technical, operational, and maintenance aspects of conversion of fossil fuel powered boats to electric/solar boats through a consultative process.
- To float a Request for Proposal (RFP) subsequently for selection of a Participant for designing, engineering, installing, testing, and commissioning of retro fitment of boats with electric propulsion system in Chilika, Odisha.

2.2. Roles and responsibilities

2.2.1. Roles and Responsibilities of the Successful Bidder for retro-fitment of existing boats to electric/ solar powered.

2.2.2. Design and Engineering

- a) The Bidder shall do the survey and collect data regarding the existing operational boats under Odisha Tourism Development Centre, Chilika Development Authority and Fishing boats (with help of the Fisheries department).
- b) The Bidder shall provide the design specifications for retro-fitment of solar powered electric propulsion system along with charging infrastructure to run the existing boats as per required operational duration and speed.(6 hours operation at 6-8 knot /hour speed)he design and engineering of boats shall be as per the technical specifications of IWT rules.
- c) The Bidder shall provide the on-shore charging station/infrastructure for charging of boats.

2.2.3. Supply of Equipment

- a) The Bidder shall be responsible for the supply of all Equipment including but not limited to electric propulsion system, BMS, solar photovoltaic modules, module, mounting structures, inverters, batteries, chargers, charging infrastructures and the balance of systems.
- b) The Bidder shall be responsible for procuring, packing, forwarding, loading, unloading, safekeeping, and handling of all Equipment including insurance coverage all the time until Acceptance of the retrofitted boats pursuant to SOW Clause 3.2.1.6.

2.2.4. Installation

- a) The Bidder shall be responsible for carrying out the installation of all Equipment as per the design, SLDs, etc. approved by OREDA.

2.2.5. Roles and Responsibilities of OREDA

- a) OREDA shall be acting as the nodal agency. It responsibilities shall include calling for bid proposals, on boarding of bidders, award of work, project monitoring, co-ordination with concerned departments, payment to bidders, etc.

3. Qualification Requirement (QR)

3.1. General Qualification Requirement

Clause no.	Qualification Requirement	Support document
3.1.1.	<p>Applicability:</p> <p>The Bidder must be a</p> <p>3.1.1.1. company registered under The Indian Companies Act, 1956/ 2013; or</p> <p>3.1.1.2. partnership firm registered under The Indian Partnership Act, 1932; or</p> <p>3.1.1.3. sole proprietorship firm under the relevant laws in India.</p> <p>3.1.1.4. Joint venture and consortium firms under the relevant laws In India</p>	<p>The Bidder must submit a copy of the relevant documents issued by an appropriate Government authority in India.</p>
3.1.2.	<p>Applicability:</p> <p>The Bidder must not be debarred/ blacklisted/ defaulted by any Government, agency, Public Sector Undertaking (PSU), institution/ autonomous organizations in the past.</p>	<p>The Bidder shall submit a self-certification by an authorized person duly notarized to this effect.</p> <p>The Bidder must submit Bid Form 9.</p>

3.2. Specific Qualification Requirement

Clause no.	Qualification Requirement	Support document
3.2.1.	<p>Applicability:</p> <p>The Bidder must be in possession of the valid test certificates of boats, solar photovoltaic modules, inverters, batteries, electric motor/ engine/ propulsion system from MNRE/ BIS/ NABL/ IACS/IWT authorized test laboratories only.</p> <p>Such test certificates must have the IEC and IP standards from any valid MNRE / IACS accredited test labs</p>	<p>The Bidder must declare that it will possess the test reports and data sheets in the name of OEM only along with the authorization letter from Original Equipment Manufacturer (OEM). The test reports and datasheets for Equipment must be submitted in the name of a single OEM only. However, the change of OEM is permissible during work on assigning sufficient reason for the same and submission of the latest datasheets and test reports from MNRE approved labs.</p> <p>The Bidder must submit Bid Form 8 of Section 7 (Annexure).</p> <p>Note: The proof of all documents showcasing the possession of such copies of the Test Certificates by the Bidder shall be submitted as per the instructions given under the Letter of Intent and not at the time of bidding.</p>

3.2.2.	<p>Applicability:</p> <p>The Bidder must have established high quality, environment management system, and information security standards in place and must have ISO 9001 and ISO 14001 certifications for solar photovoltaic modules, inverters, batteries</p>	<p>The Bidder shall declare that it has a copy of the ISO certificate for ISO 9001 and will possess a copy of the ISO 14001 certificate in the name of the Original Equipment Manufacturer (OEM), Supported by a letter of authorization from the OEM.</p> <p>The Bidder must submit Bid Form 16 of Section 7 (Annexure).</p> <p>Note: The documentary evidence shall be submitted as a part of the response to the Letter of Intent and prior to issuance of the Work Order, and not at the time of bidding.</p>
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3.3. Technical details to be furnished by the Bidder

Clause no.	Bidder's work experience	Support document
3.3.1.	<p>The Bidder must demonstrate its experience and capacity in design & development of solar/electric powered boats, its past experience in retro-fitting of existing boats or retro fitment of ICE vehicle to Electric Vehicle during last five (5) years from the due date of submission of the EOI submission in India.</p>	<p>The Bidder shall submit the letter of awards/ work orders/ contract agreement along with the Joint Commissioning Certificate issued by Implementing entity.</p> <p>Note:</p> <p>a) The letter of awards/ work orders/ contract agreement along with any amendments issued shall be submitted in full without deleting/ hiding any information.</p> <p>The Bidder must submit Bid Form 6 of Section 7 (Annexure).</p>

3.3.2.	<p>Applicability:</p> <p>The Bidder must have a good track record of maintenance of the solar boats/retrofitted boats/ retrofitted Electric Vehicles for 2 years.</p>	<p>The Bidder shall submit the letter of awards/ work orders/ contract agreement along with the experience certificate /Joint Commissioning Certificate issued by Government, PSUs, Government Agencies/ Bodies or any other establishment registered under the Society Registration Act, 1860 or The Indian Trust Act, 1882.</p> <p>Note:</p> <ul style="list-style-type: none"> a) The letter of awards/ work orders/ contract agreement along with any amendments issued shall be submitted in full without deleting/ hiding any information. b) The experience certificate/joint commissioning certificate shall clearly mention the capacity and the date of commissioning. The Joint Commissioning Certificate issued by only the concerned government authority as per the Prudent Utility Practices followed in India. <p>The bidder must submit a self-declaration against this along with the detailed of the project installed and maintained for minimum 5 years.</p>
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3.4. Financial information to be furnished by the Bidder.

Clause no.	Description	Support document
3.4.1.	<p>The Bidder must submit its annual turnover for the last five (5) financial years from FY 18-19, FY19-20, FY20-21, FY 21-22and FY 22-23 from the solar business only.</p>	<p>The Bidder shall submit a turnover certificate issued by a chartered accountant, as per Bid Form 7 of Section 7 (Annexure).</p> <p>It is important to note that the annual turnover for each financial year shall be the income/ earning/ revenue from the solar business only; and other income (if any) shall not be considered for evaluation.</p>

4. Submission of EOI

The responses submitted by the participants should cover the following points:

- I. Brief description of the business, year of incorporation, management, and experience of the firm.
- II. Detailed technical specification of different passenger capacity boats to convert it into solar powered electric boats while maintaining current operating parameters.
- III. Land and electrical requirement for boat charging stations.
- IV. Need for battery swapping and detailed specification for the battery-swapping station.
- V. Engineering design and drawing for both civil and electrical infrastructure for retrofit boats along with Charging Infrastructure and battery swapping stations.
- VI. Consumables and spare parts requirement.
- VII. Business plan for retro fitment of existing boats with solar powered electric propulsion system
- VIII. Case study on bidder's experience in retrofitting existing boats with electric propulsion system.
- IX. Major risks in construction and operations of retrofitting of boats.
- X. Forms specified in section 6.

5. Evaluation of EOI

- i. OREDA will form a Technical Committee for evaluation of the responses submitted by the Participants.
- ii. The committee may request the participants to make online/ physical presentations on their products and technology for retro fitment of existing boats to electric boats. The Technical Committee will shortlist the responses based on the selection parameters as decided by the committee, from the various selection parameters stated above to prepare the RFP.
- iii. Final recommendations from the Technical Committee will be placed before CE OREDA, for approval.
- iv. Following approval, the RFP document will be finalized and published.

6. Annexure

6.1. Bid Forms – Covering letter.

FORMAT FOR COVERING LETTER CUM UNDERTAKING

(The covering letter should be on the Letter Head of the Applicant)

Date: _____

Place: _____

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha.

Email: ceoreda@oredaorissa.com

Sub: Submission of Technical Bid for Design, Engineering, and retrofitting of existing boats with solar powered electric propulsion system, with zero emission along with Comprehensive Maintenance for two (2) years.

Ref.: EOI No. _____, dated _____ (the "EOI")

Dear [Sir/ Madam],

Having examined the Bidding Document carefully, We, the undersigned, offer to submit herewith the Technical Bid as per the subject line and EOI no. mentioned above.

We are submitting our Bid and we have applied for the following Project:

We confirm that neither we nor any of our Parent Company/ Affiliate/ Ultimate Parent Company has submitted a response other than this response directly or indirectly in response to the afore said EOI.

1. We give our unconditional acceptance to the EOI, issued by OREDA, as amended. In token of our acceptance to the EOI, the same have been signed & stamped by us and enclosed to the response. We hereby confirm that the provisions of the EOI shall be binding on us.
2. We have submitted our response strictly as per the provisions and formats of the EOI, without any deviations, conditions and without mentioning any assumptions or notes.
3. We hereby unconditionally and irrevocably agree and accept that the decision made by OREDA in respect of any matter regarding or arising out of the EOI shall be binding on us. We hereby expressly waive any and all claims in respect of EOI process. We confirm that there are no litigations or disputes against us, which materially affect our ability to participate or function under the obligations with regard to EOI.
4. Details of the contact person are furnished as below:

Name:

Designation:

Address:

Contact numbers:

email id:

5. We are enclosing herewith the entire response containing duly signed formats in electronic format sent via email to: samyaksarangi@ntpc.co.in/abhishekkumar02@ntpc.co.in as per the EOI for consideration.
6. It is confirmed that our response is consistent with all the requirements of submission as stated in the EOI and subsequent communications from OREDA, if any.

7. The information submitted in our response is complete, strictly as per the requirements stipulated in the EOI and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our response.
8. We confirm that we shall establish a central office at Bhubaneswar, Odisha and also establish local offices at the concerned district so as to deliver uninterrupted and sustainable Comprehensive Maintenance during the CMC Period.
9. We confirm that all the terms and conditions of our response are valid for acceptance for a period of one hundred and eighty (180) days from the response Deadline.
10. We confirm that we have not taken any deviation so as to be deemed “non-Responsive ”as stipulated in this EOI.
11. We understand that you are not bound to accept any response you receive.

We remain,

Yours sincerely

Place: [\[insert place\]](#)

[\[sign here\]](#)

Signature

Name of Authorized Signatory: [\[insert name\]](#)

Designation: [\[insert designation\]](#)

Name of the Bidder: [\[insert Bidder's legal entity name\]](#)

Seal: [\[insert seal of the Bidder\]](#)

6.1.1. Bid Form 2 (Work Experience)

Technical Experience – Solar boat projects (To be submitted on
the letterhead of the Bidder)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha. Email:

ceoreda@oredaorissa.com

We, hereby, submit our experience as per QR Clause 4.3 of Section 7 (QR) and we have the experience of commissioning/ retrofitting solar boat projects in the last five (5) years from the due date of submission of the Technical Bid.

As per QR Clause 4.3.1, and Clause 4.3.2 our experiences are as follows:

Technical Qualification	Details -
Number of years of experience in deployment of solar boats/retrofitting of existing boats with electric propulsion system or ICE vehicle to electric vehicle	
Number of Solar Boats already deployed in India	Please provide year wise break-up of the projects commissioned/ deployed
Number of retrofitted electric boats or electric vehicles deployed in India	Please provide year wise break-up of the projects commissioned/ deployed
Number of solar boats in operation for more than 5 years	

The details pertaining to the reference projects are given below:

Sr. No.	Item Description	Reference project [insert]**
1.	Title of the project with a brief of scope	
2.	Actual project cost	[insert] Lakh INR
3.	Name of the client with the full address including the contact no. and email id of the client	Name of the client: Address: Contact no.: Email id:
4.	Name of the ultimate user of solar boat	
5.	Location of the deployment and GPS/ Google coordinate	Address of the deployment: GPS/ Google coordinate:
6.	I have attached the relevant letter of awards/ work orders/ contract agreement along with any amendments issued in full without deleting/ hiding any information	[Yes/ No]
7.	Details of the letter of awards/ work orders/ contract	Work order no.: Date of work order: [DD MMM YYYY] Whether any liquidated damages been charged by the client? [Yes/ No]. In case of yes, please provide the details.

8.	I have attached the Joint Commissioning Certificate issued by the concerned government authority as per the Prudent Utility Practices followed in Odisha.	[Yes/ No]
Sr. No.	Item Description	Reference project [insert]**
11.	Details of the Joint Commissioning Certificate	Name of the government authority issuing the Joint Commissioning Certificate: [insert] Target date of commissioning: [DD MMM YYYY] Actual date of commissioning: [DD MMM YYYY]

** in case of multiple reference projects, please keep on adding separate columns.

The scan copies of the letter of awards/ work orders/ contract along with the associated Joint Commissioning Certificates are enclosed below:

[Please attached the proof of documents]

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

6.1.2. Bid Form 3 (Financial Qualification)

Financial Qualification

(To be submitted on the letterhead of the chartered accountant)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha. Email:

ceoreda@oredaorissa.com

I, [insert name of the chartered accountant], confirm that the Bidder, [insert name of the Bidder], as per our detailed evaluation of the Bidder's latest certified true copy of the audited annual accounts and their work orders bidder's average annual turnover are as follow:

Average annual turnover (as per QR Clause 3.4.3),

Particulars	UEOI	FY18-19	FY19-20	FY20-21	FY 21-22	FY 22-23
Annual turnover from solar business only#	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Average annual turnover from solar boat business only#	Lakh INR					[insert]

other income is not considered

Net Worth (as per QR Clause 3.4.2) (applicable in case of companies),

Particulars	UEOI	FY18-19	FY19-20	FY20-21	FY 21-22	FY 22-23
Aggregate value of the paid-up share capital	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Add: all reserves created out of the profits and securities premium account.	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Subtract: Accumulated losses	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Subtract: Deferred expenditure	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Subtract: Miscellaneous expenditure not written off	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]
Net Worth*	Lakh INR	[insert]	[insert]	[insert]	[insert]	[insert]

Note: It does not include reserves created out of revaluation of assets, write-back of depreciation and amalgamation.

[For partnership firm and sole proprietorship firm, as per the methodology certified by the chartered accountant based on the Applicable Law in India.]

I hereby declare that all the information and statements made in this certificate are complete, true and correct and also accept that any misinterpretation contained in it may lead to cancellation of my CA membership, and I shall be liable to be proceeded as per the Applicable Law.

Place: [sign here]

[insert place] Signature

Name of Chartered Accountant (CA): [insert name]

Designation: [insert designation]

Name of the firm of the CA: [insert Bidder's legal entity name]

CA membership no.: [insert CA membership no.]

Registration no. of the CA's firm:

Seal: [insert seal of the Bidder]

6.1.3. Bid Form 4 (Test Certificates)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha.

Email: ceoreda@oredaorissa.com

We, the undersigned, declare that the “**Test Certificates**” for the Equipment will be issued to us from the valid MNRE/ NABL/ BIS/IACS authorized Test Labs, pursuant to the requirements as mentioned in QR Clause 4.2.1.

Sl. No.	Major Component	Test Certificates Required	Test description	Designated Test Labs
1	Crystalline Silicon Terrestrial PV Modules	IEC 61215	Design qualification	MNRE/NABL/BIS authorized Test Labs
		IEC 61730	Safety Qualification	MNRE/NABL/BIS authorized Test Labs
		IEC 61701	Salt Mist Corrosion Test	MNRE/NABL/BIS authorized Test Labs
		IEC 60068	Environmental Test	MNRE/NABL/BIS authorized Test Labs
		IEC 62116	Anti-Islanding Protection	MNRE/NABL/BIS authorized Test Labs
		IEC 61727	Grid Interconnection	MNRE/NABL/BIS authorized Test Labs
		IP 65/56	Ingress Protection for Outdoor/Indoor Enclosure	MNRE/NABL/BIS authorized Test Labs
2	Electric propulsion system			IACS/IWT authorized Test Labs

Note: The proof of all documents showcasing the possession of such copies of the Test Certificates by the Bidder shall be submitted as per the instructions given under the Letter of Intent and not at the time of bidding.

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

6.1.4. Bid Form 5 (Self-certificate)

Self-certificate

(To be submitted on a non-judicial stamp paper of appropriate value as per The Indian Stamp Act, 1899 relevant to the place of execution. The stamp paper shall be purchased in the name of the Bidder only.)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha. Email:

ceoreda@oredaorissa.com

We, the undersigned, confirm and certify that we have not been debarred/ blacklisted/ defaulted by any Government, agency, Public Sector Undertaking (PSU), institution/ autonomous organizations in the past. We have not acted in concert or in collusion with any other Bidder or other person(s) and also not done any act, deed or thing which is or could be regarded as anti-competitive.

I/we hereby declare the following in the context of the EOI that:

In case of any false documents submitted and found in the future, we shall be liable to be proceeded against as per the Applicable Law.

In case of any such events, we have provided the case details and their current status below. [~~strike-off this line, in case it is not applicable~~].

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

6.1.5. Bid Form 6 (Quality Assurance)

Quality Assurance

(To be submitted on the letterhead of the Bidder)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha. Email:

ceoreda@oredaorissa.com

We, the undersigned, declare that we have a copy of the ISO certificate for ISO 9001 and will submit the copy of the ISO 14001 certificate in the name of the Original Equipment Manufacturer (OEM), supported by a letter of authorization from the OEM, as per QR Clause 4.2.2.

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

Note: The documentary evidence shall be submitted as a part of the response to the Letter of Intent and prior to issuance of the Work Order, and not at the time of bidding.

6.1.6. Bid Form 7 (Summary of the Bidder)

Summary of the Bidder

(To be submitted on the letterhead of the Bidder)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha.

Email: ceoreda@oredaorissa.com

We, the undersigned, attaching the summary of [insert name of the Bidder] in excel format.

Name of the company/firm	
Type of Firm	
Detail Postal address of the registered office	
Date of incorporation/registration (attach a photocopy of the certificate of incorporation/registration)	
Name of the head of the organization	
Name of the contact person	
Contact details	
Phone	
Fax	
Email	
Company registration number	
PAN no	
GST no	
Average annual turnover in last 5 years	
Net worth of company in last FY	
Experience in retrofitting of boats or ICE vehicles with electric propulsion system for boats	
No. of electric/solar boats commissioned during the last 5 years. (Please provide site-wise details such as the name of the site, capacity, numbers, purpose for which the boats were installed, name and contact details f of the client, etc.	
Description of other important activities being carried out mainly in solar PV space.	

Name of the other national/International organization with which the firm has collaborated particularly (Copies of MOUs/work orders may be furnished)	
Major works in hand	
Size and spread of the organization (Give the list of the staff and names of the districts/blocks/villages where the organization has worked).	
Details of finances handled by the organization for managing the proposed assignment (give a detailed analysis in a separate sheet.)	

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

6.2. Pre-bid Form

Pre-bid queries

(To be submitted on the letterhead of the Bidder)

Date: [DD MMM YYYY]

EOI no.: [insert EOI no.] dated [DD MMM YYYY]

To

The Chief Executive

Odisha Renewable Energy Development Agency (OREDA)

Address: S-3/59, Mancheswar Industrial Estate, Bhubaneswar - 751010, Odisha. Email:

ceoreda@oredaorissa.com

Sub: Submission of pre-bid queries for Design, Engineering, and retrofitting of existing boats with solar powered electric propulsion system, with zero emission along with Comprehensive Maintenance for Five (5) years.

We are pleased to submit the following pre-bid queries:

Sl. No.	Clause no.	Page no.	Clause	Clarification sought	Rationale
1					
2					
3					
4					
5					

Place: [insert place]

[sign here]

Signature

Name of Authorized Signatory: [insert name]

Designation: [insert designation]

Name of the Bidder: [insert Bidder's legal entity name]

Seal: [insert seal of the Bidder]

Appendix to SoW-Retrofit model for tourism and fishing boats
6.2.1. Appendix Form 1 (Technical Specifications of existing boats)

Sr. No.	Owner	Name of the boat	Age of boat in years	Type of boat	Passenger capacity	Dimension of boat	Availability of roof top	If yes, available space	Existing motor capacity in h	Operational duration in a day	Operational duration in a year	Type of fuel used	Fuel consumption per hour	Speed	Frequency of maintenance	Average expenditure per maintenance
1	CDA	1 Bhargavi-II	21 years	wooden	10	55' x 45"	Yes	8'X16'	9 HP Lombardine Greaves Marine engines	6 Hr.	2160 Hr.	Diesel	2 Litre.	6-8 knots	Depends upon running	Varies depending upon nature of repair
2	CDA	2 Dayall	21 years	wooden	10	55' x 45"	Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Diesel	2 Ltr.	6-8 knots	Depends upon running	Varies depending upon nature of repair
3	CDA	Malaguni-I	21 years	wooden	10	55'X45"	Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Diesel	2 Ltr.	6-8 knots	Depends upon running	Varies depending upon nature of repair
4	CDA	Malaguni-III	20 years	wooden	10	55' x 45"	Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Diesel	2 Ltr.	6-8 knots	Depends upon running	Varies depending upon nature of repair
5	CDA	Bhargavi-IV	20 years	wooden	10	55' x 45"	Yes	8'X16'	9 HP Lombardine	6 Hr.	2160 Hr.	Diesel	2 Ltr.	6-8 knots	Depends upon running	Varies depending upon

									Greaves Marine engine							nature of repair
6	CDA	Daya-VI	20 years	wooden	10	55'X45"	Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Die sel	2 Ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of repair
7	CDA	Daya-III	11 years	Wooden	10	55' Long Top bottom width 96"	Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Die sel	2 Ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of repair
8	CDA	8 Bhargavi-III	10 years	Wooden	10	50' Long Top bottom width bottom width 84"*45" *32"	& Yes	8'X16'	9 HP Lombardine Greaves Marine engine	6 Hr.	2160 Hr.	Die sel	2 Ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of repair
9	CDA	9 Speed boat - I	14 years	FRP speed boat	4	2 Stroke	Canopy roof top	No	40 H. p. Yamaha OBM	6 Hr.	2160 Hr.	Petr ol	17.5 ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of repair
10	CDA	Speedb oat -2	5 years	FRP speed	6	4 Stroke	Canopy roof top	No	50 HP. yamaha OBM	6 Hr.	2160 Hr.	Petr ol	14 ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of repair
11	CDA	Speed boat 3	5 years	FRP speed	8	4 Stroke	Canopy roof top	No	50 HP. Yamaha OBM	6 Hr.	2160 Hr.	Petr ol	14 ltr.	6-8 knots	Depends upon running	Varies dependin g upon nature of

																repair
12	CDA	Catamaran boat-Pelican	5 years	catamaran	11	4 stroke	FRP roof top	8X20'	60 H.P. Yamaha OBM	5 hr.	1800 Hr.	Petrol	16 Ltr.	6-8 knots	Depends upon running	Varies depending upon nature of repair
13	CDA	Catamaran boat-(Flamingo)	5 years	FRP catamaran	11	4 stroke	FRP roof toop	8'X20'	50 H.p. Yamaha OBM	5 hr.	1800 Hr	Petrol	14 Ltr.	6-8 knots	Depends upon running	Varies depending upon nature of repair

Fishing Boat:

S. No.	Particulars	UOM	Details
1	Type of Boat (wooden/FRP/sal)		Wooden (Sal and non-Sal)
2	Weight of boat (empty)	kg	Sal boat: 2500 Kg Non-Sal boat: 1500 Kg
3	Maximum carrying capacity	kg	Sal Boats: 2500 Kg Non-Sal boats: 2000 Kg
4	How many litres of diesel consumed in a day?	Ltrs/ day	24 liters/day
5	Typical timings of fishing	Time	4 AM to 4 PM
6	Duration for which the boat remains in waters for fishing	Hrs	12 hours
7	Typical hours of operation per day for the outboard motor/engine runs in a day (travel time to and from the fishing location)	Hrs	10-12 hours

8	Number of fishing days in a year	days	200
9	Existing outboard motor/engine capacity	Hp	6 HP and 9 HP
10	Length, width & height of boat	L x B x H (ft)	(40-42) *6*4
11	Average distance travelled in a day	Kms	20-30
12	Approximate weight of diesel engine with all motorised accessories	Kgs	100-120 Kg, with propellor 150 Kg
13	Distance from nearest electricity grid	Kms	Grid connection available in the village distance will be 500 meters

6.2.2. Appendix Form 2 (Existing boat in the Departments)





Existing tourism boats



Existing Fishing boats

End of Document