

Expression of Interest(EOI)
for
Empanelment of Agencies
For

Design, Supply, Installation, Testing & Commissioning of 3 Hp Solar Water Pumping System (SWPS) on Turnkey basis for irrigation purpose in the state.



THE ODISHA AGRO INDUSTRIES CORPORATION LIMITED
(A Government of Odisha Undertaking) 95, SATYA
NAGAR, BHUBANESWAR – 751 007.

EXPRESSION OF INTEREST(EOI)

Sealed EOI in prescribed format are invited from ISI/BIS/Licensed Agencies for Design, Supply, Installation, Testing & Commissioning of 3 Hp Solar Water Pumping System (SWPS) on Turnkey basis for irrigation purpose in the state. For details please visit our website www.orissaagro.com. The detail EOI document will also be available in the office of undersigned from Dt.**13.06.2018 to 28.06.2018 up to 5.00 p.m.** on payment of **Rs. 1120/- (Inclusive of GST)** per set or else the documents can be downloaded from our website. If the documents downloaded be enclosed with a DD/ BC for **Rs.1120/-** in favour of **OAIC Ltd.** of any nationalized bank payable at **Bhubaneswar**. The last date of submission of quotation document is **28.06.2018 up to 5.00 p.m.** The undersigned reserves the right to accept / reject any / all application (s) without assigning any reasons thereof.

Sd/-
MANAGING DIRECTOR

Expression of Interest

(EOI)

Empanelment of Agencies

For

**Design, Supply, Installation, Testing & Commissioning
of 3 Hp Solar Water Pumping System (SWPS) on
Turnkey basis for irrigation purpose in the state.**



The Odisha Agro Industries Corporation Ltd.

(A Govt. Of Odisha Undertaking)

Regd.H.O.95, Satyanagar, Bhubaneswar-07

Tel: (0674) 2570687, Fax: 2570313, Email: oaicho@orissaagro.com

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Regd.H.O.95, Satyanagar, Bhubaneswar-07,

Tel: (0674) 2570687, Fax: 2570313, Email: oaicho@orissaagro.com

Website: www.orissaagro.com

EOI NOTICE

Dated : 12.06.2018

1	Name of the work :	Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of 3 HP Solar Water Pumping System (SWPS) on turnkey Cluster basis for irrigation purpose in the state of Odisha
2	Estimated cost (Rs.)	Rs. 16 Lakh
3	Earnest Money Deposit (EMD)	Rs. 1,45,000/- (Rupees One lakh Forty five thousand) in favour of " The Managing Director, OAIC Ltd. " Payable at Bhubaneswar .
4	Contract Period	1 Year
5	Time of completion	06 (Six) months
	Date of publication on website: http:// www.orissaagro.com	
6	Last date & time for receipt of bids	Dt.28.06.2018 Up to 05:00 PM
7	Submission of original copies of Bid fee & EMD (Offline)	Dt.13.06.2018 and 28.06.2018 up to 5.00 P.M.
8	Technical Bid Opening Date	Dt. 29.06.2018 at 03:00 PM
9	Name & address of office inviting tender	The Managing Director, The Odisha Agro Industries Corporation Ltd, 95-Satyanagar, Bhubaneswar-07, Khordha, Odisha
10	Contact no. of procurement officer	+91-7008339439 or, +91-7735672272

Further details can be seen on website: www.orissaagro.com

Sd/-
Managing Director,
OAIC Ltd, Bhubaneswar

Section -1

List of Important dates & details of Bids

1.	Name of work	Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of 3 Hp Solar Water Pumping System (SWPS) on Turnkey Cluster basis for irrigation purpose in the state of Odisha.										
2	EOI reference no./OAIC/SPV/SWPS-3HP/18-19										
3	Contract period	1 Year										
4	Time of completion	06 (Six) months										
5	Tentative Quantity	Submersible Solar PV Water Pumping System: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Type of pump</th> <th style="text-align: center;">Nos.</th> <th style="text-align: center;">Rate (Rs.)</th> <th style="text-align: center;">Amount (Rs.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3 Hp AC/DC</td> <td style="text-align: center;">36 (9 Clusters)</td> <td style="text-align: center;">16 lakh/ cluster of 4 Nos.</td> <td style="text-align: center;">1,44,00,000/-</td> </tr> </tbody> </table> <p>The quantity mentioned above is tentative and subject to increase or decrease depending on the actual requirement at the time of placing order, demand in each category and resources available. The Total estimated cost is about on basis of benchmark cost of MNRE.</p>			Type of pump	Nos.	Rate (Rs.)	Amount (Rs.)	3 Hp AC/DC	36 (9 Clusters)	16 lakh/ cluster of 4 Nos.	1,44,00,000/-
Type of pump	Nos.	Rate (Rs.)	Amount (Rs.)									
3 Hp AC/DC	36 (9 Clusters)	16 lakh/ cluster of 4 Nos.	1,44,00,000/-									
7	Cost of Bid document (Non-refundable)	* Rs. 1120/- (Rupees One Thousand One Hundred Twenty only) for General Bidder.										
10	Earnest Money Deposit	* For General Bidder: Rs. 1,45,000/-										
11	Publishing on website	Date.13.06.2018										
12	Period of downloading of bidding documents	Start date: 13.06.2018	Time: 10.00 AM									
		End date: 28.06.2018	Time: 05.00 PM									
13	Bid submission	Start date:13.06.2018	Time: 11.00 AM									
		End date: 28.06.2018	Time: 05.00 PM									
14	Technical bid opening date	Date. 29.06.2018	Time: 03.00 PM									
15	Authority inviting bids	Managing Director, OAIC LTD, BHUBANESWAR										
16	Address	The Odisha Agro Industries Corporation Ltd 95-Satyanagar, Bhubaneswar , Khordha Odisha - 751007. Ph. No: 0674-2570687,Fax No: 0674-2570313 Web site: www.orissaagro.com E-mail: oaicho@orissaagro.com										

Note: The **tender fee** and **Earnest Money Deposit (EMD) in original** must be submitted between all working days from **13.06.2018** and **28.06.2018** by 5.00 PM. **If tender fee and EMD are not received before mentioned date and time, tender shall be considered invalid. Seeking exemption from Bid fee & EMD, shall submit documentary evidence supporting the exemption.**

Section-2

1. Objective of the EOI

To derive the best price for the specified quality and specification of Solar Driven Pump set on turnkey basis through price discovery method.

To ascertain the specified quality product is available to farmer directly from the manufacturers/through its authorized dealer.

To facilitate farmer in procuring the specified product at reasonable rate and at the same time ensuring the quality of supply as per specification.

2. Need for Empanelment :

In present scenario, due to lack of agreement on uniform price and quality of Solar Driven Pump sets along with its make, the farmers are facing troubles such as

- Farmer does not get transparent price for the specified equipment.
- The manufacturer/dealer differentiates price on the basis of the quality of material use by them & efficiency of pump, which a farmer is not aware about the technicality at the time of purchase of such System.

Hence to overcome the above problems with an objective to safe guard the interest of farmer it was envisaged to empanel manufacturers.

Section -3**General Instructions**

1. Party can download the EOI document free of cost from the website, but will need to submit the EOI document along with the DD for EOI Document Fee at the time of physical submission.
2. EOI Document Fee and EOI Security shall have to be paid of the amount stated in the Notice Inviting Online Tenders section
3. **Proposal:** Interested Party shall submit physically their proposal in sealed envelopes super-scribed with “**supply of Solar Driven Pump sets on turnkey basis**”. Original printed document shall be considered as authentic. All pages of the offer must be signed.
4. Services offered should be strictly as per specifications mentioned in this EOI Document. Please spell out any unavoidable deviations, article-wise, in your proposal under the heading “Deviations”.
5. The price of one copy of the **EOI Document is Rs. 1120/-(inclusive of GST)**, which can be paid by Demand Draft/ Bankers Cheque. The Demand Draft/ Bankers Cheque may be drawn in favour of “**Odisha Agro Industries Corporation Ltd.**”, Payable at **Bhubaneswar**.

For and on behalf of

Odisha Agro Industries Corporation Ltd

Section -4
Instruction to Bidder

- I.** At the end of this exercise, a separate list of empanelled manufacturers and their price offer for various types of pump sets will be published in public domain. The best price offer discovered would be applicable for a period of one year/ reset notification whichever is later.
- II.** No dealers or traders of any company are allowed to participate in the EOI process. The manufacturer shall issue power of attorney as per **Annexure-6** to its employee only. (If, required).
- III.** The manufacturers should provide the list of their Authorized dealers / distributors in the State of Odisha through which the projects will be available to farmers.
- IV.** During the empanelment period no escalation charges will be allowed.
- V.** The Solar Driven Pump set on turnkey basis will be handed over to farmer only in presence of OAIC at sites.
- vi.** The Solar Driven Pump set on turnkey basis complete & handed over must be covered with warranty for minimum five years from the date of completion against any defective manufacture/ workmanship, etc. The repairs/replacements shall be attended free of cost within the warranty period. An amount 20% of cost of solar system will be withheld while making payment for the project and 4 % per annum will be released for 5 years.
- Vii.** The Authority may levy a penalty on the manufacturer if found that supplied component are not conforming to minimum IS standards/ Specification as mentioned in this EOI document. The cost of such products would be recovered from the security submitted by the manufacturer.
- Viii.** The Authority will publish the list of empanelled manufacturer along with their price offer and dealer network detail. The farmer will submit the satisfactory document to Authority for releasing payment due.
- ix.** The manufacturer will have to submit detailed specification & the valid certificate of BIS. Rating for each product they are offering for empanelment. The manufacturer will submit their price offer only for the product for which they have submitted the specification and valid BIS certificate. They will be empanelled for that particular projects only.

- x.** The Authority has right to disengage the empanelled manufacturer if found that product supplied by manufacturer is not as per the minimum specified IS standard and specification or its IS certification gets invalid. The manufacturer shall have to submit the renewed IS certificate to the authority as and when the certificate gets invalid during the period of empanelment.
- xi.** If at any time it is noticed that the manufacturer has supplied same component at a lower price in the open market during the period of this empanelment, the Authority shall take suitable appropriate course of action against the empanelled manufacturer.
- xii.** If the interested manufacturer backs out at any stage of this exercise, the manufacturer will become ineligible to participate in any such empanelment exercise to be carried out by the authority in future and will have to forfeit their EMD.

Section -5

1. Minimum Eligibility Criteria:

i. Solar Driven Pump set on turnkey basis:

- a. The Solar driven Pump sets manufacturer who is approved in MNRE with valid BIS registration, is only eligible to participate in this EOI process. The manufacturer should hold a valid BIS license at the time of submission of EOI document.
- b. The manufacturer should have minimum domestic sales of Rs. 2.00 Crores from Solar Driven Pump sets for Agriculture Purpose during last 3 years ending on 31st March, 2018.
- c. The manufacturer will provide the list of its authorized dealer network across the State through which their approved products will be available to the farmer. The manufacturer must have its own establishment and dealer network in the State of Odisha.

2. Selection Process:

- i. The interested manufacturer shall submit its proposal of EOI as per Annexure -1, 2, 3, 4 and 7 (if applicable). Incomplete information in Technical proposal will lead to disqualification of the manufacturer for this exercise.
- ii. To safeguard the interest of farmer and to streamline the cost of system, the authority on behalf of farmer, is asking the manufacturer to submit their best possible price offer for specified minimum quality and specification of system as given at **Annexure-3**.
- iii. The price offer is to be submitted only as per the format given at **Annexure-8** in a separate envelope but the Technical & Price Bid to be submitted in one cover envelope super scribing “ **Offer for** ” .
- iv. The price offer should be uniform across the State for a minimum specification of equipment as described in this document.
- v. The price offer of only those manufacturers will be declared who will be declared qualified at the end of technical scrutiny.
- vi. A list of selected manufacturer along with the best price discovered will be prepared and published by the authority after due scrutiny and negotiation.

Section -6

1. Price Offer :

- i.)** The price offer should cover all applicable taxes and at FOR Farmer's point.
- ii.)** The price offer has to be submitted in the physical form of EOI.

The manufacturer shall categorically confirm strict compliance with the following stipulation in respect of their offer.

- a. Any effort by manufacturer or manufacturer's agent/consultant or representative howsoever described to influence the Authority in any way concerning scrutiny/ consideration/ evaluation/ comparison of the EOI or decision concerning empanelment shall entail rejection of the EOI.
 - b. EOI should be submitted directly by the Manufacturer.
- iii.)** Authority reserves the right to seek clarification/ justification/negotiation from the manufacturer on the price offer in case Authority deems it necessary. Based on the justification provided by the manufacturer, if Authority feels that the price offer is unrealistic/ unfeasible in order to execute a project of this nature, Authority reserves the right to reject the said price offer. The manufacturer shall be governed by the decision of Authority.

2. Performance Security :

The empanelled manufacturer shall submit a Performance Security of Rs. 5,00,000 (Rupees Five Lacs only) in the form of Bank Guarantee on successful selection for empanelment. The performance security shall be appropriated against breach of the terms and condition of this EOI document. The bank guarantee shall be minimum for a period of one year. The Bank Guarantee format is given in the **Annexure- 9**. The manufacturers should submit the Bank Guarantee with the EOI or before starting the supply if found selected.

Section-7
Technical Specification
Solar Water Pumping Systems

1. Introduction :

A Solar Photovoltaic (SPV) Water Pumping System consists of:

- a. PV Array: PV Array should be mounted on a suitable structure with provision of tracking the sun.
- b. Motor Pump Set (submersible) :
 - D.C. Motor Pump Set (with Brushes or Brush less D.C.)
 - or
 - A.C. Induction Motor Pump Set with a suitable inverter
- c. Electronics :
 - Maximum Power Point Tracker (MPPT)
 - Inverter for A.C. Motors (Appropriate Electronic Controller in case of B.L.D.C.)
 - Electronic Protections.
- d. Interconnection Cables and
- e. "On-Off" Switch

2. Performance specifications and requirements :

Solar PV Water Pumps with PV module capacity in the range of 3000Wp may be installed on a suitable bore-well etc. Under the "Average Daily Solar Radiation" condition of 7.15 KWh / sq.m. on the surface of PV array (i.e. coplanar with the PV Modules), the minimum water output from a Solar PV Water Pumping System at different "Total Dynamic Heads" should be as specified below :

For D.C. Motor Pump set with Brushes or Brush less D.C. (B.L.D.C.) :

- i. 35 liters of water per watt peak of PV array, from a Total Dynamic Head of 30 metres and the shut off head being at least 45 metres.
- ii. 21 liters of water per watt peak of PV array, from a Total Dynamic Head of 50 metres and the shut off head being at least 70 metres.
- iii. 14 liters of water per watt peak of PV array, from a Total Dynamic Head of 70 metres and the shut off head being at least 100 metres.
- iv. 9.5 liters of water per watt peak of PV array, from a Total Dynamic Head of 100 metres and the shut off head being at least 150 metres

The actual duration of pumping of water on a particular day and the quantity of water pumped could vary depending on the solar intensity, location, season, etc.

Indicative performance specifications for the Shallow and Deep well SPV Water Pumping Systems are given in the Annexure I.

The actual duration of pumping of water on a particular day and the quantity of water pumped could vary depending on the solar intensity, location, season, etc.

Indicative performance specifications for the Shallow and Deep well SPV Water Pumping Systems are given in the Annexure II.

For A.C. Induction Motor Pump Set with a suitable Inverter :

- i. 32 liters of water per watt peak of PV array, from a Total Dynamic Head of 30 metres and the shut off head being at least 45 metres.
- ii. 19 liters of water per watt peak of PV array, from a Total Dynamic Head of 50 metres and the shut off head being at least 70 metres.
- iii. 13 liters of water per watt peak of PV array, from a Total Dynamic Head of 70 metres and the shut off head being at least 100 metres.
- iv. 8.5 liters of water per watt peak of PV array, from a Total Dynamic Head of 100 metres and the shut off head being at least 150 metres.

The actual duration of pumping of water on a particular day and the quantity of water pumped could vary depending on the solar intensity, location, season, etc.

Indicative performance specifications for the Shallow and Deep well SPV Water Pumping Systems are given in the Annexure II.

3. PV ARRAY

The SPV water pumping system should be operated with a PV array capacity in the range of **3000-Watts peak (as per MNRE models)**, measured under Standard Test Conditions (STC). Sufficient number of modules in series and parallel could be used to obtain the required PV array power output. The power output of individual PV modules used in the PV array, under STC, should be a minimum of 125 Watts peak, with adequate provision for measurement tolerances. Use of PV modules with higher power output is preferred.

Indigenously produced PV module (s) containing mono/ multi crystalline silicon solar cells should be used in the PV array for the SPV Water Pumping systems.

- Modules supplied with the SPV water pumping systems should have certificate as per IEC 61215 specifications or equivalent National or International / Standards.
- Modules must qualify to IEC 61730 Part I and II for safety qualification testing.
- The efficiency of the PV modules should be minimum 14% and fill factor should be more than 70%.
- The terminal box on the module should have a provision for "Opening" for replacing the cable, if required.
- There should be a Name Plate fixed inside the module which will give:
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Model Number
 - c. Serial Number

- d. Year of manufacture
- e. Made in India

4. MOTOR PUMP-SET

The SPV water pumping systems may use the following types of motor pump sets:

- a. Submersible motor pump set.
- b. Any type of motor set approval from Test Centers of Ministry.

The "Motor Pump Set" should have a capacity of **3Hp (DC) or, 3Hp (AC)** should have the following features:

- The mono block DC/ AC centrifugal motor pump set with the impeller mounted directly on the motor shaft and with appropriate mechanical seals which ensures zero leakage.
- The motor of the capacity 3Hp should be AC, PMDC or BLDC type. The suction and delivery head will depend on the site specific condition of the field.
- Submersible pumps could also be used according to the dynamic head of the site at which the pump is to be used.
- It is recommended that all parts of the pump and the motor of the submersible pumps should be made of stainless steel.
- The manufacturers of pumps should self certify that, the pump and ***all external parts of motor used in submersible pump which are in contact with water, are of stainless steel.*** The pumps used for solar application should have a 5 years warranty so it is essential that the construction of the pump be made using parts which have a much higher durability and do not need replacement or corrode for at least 5 years.
- **Provision for remote monitoring of the installed pumps must be made in the controllers or the inverters** either through an integral arrangement or through an externally fitted arrangement. It should be possible to ascertain the daily water output, the power generated by the PV array, the UP TIME of the pump during the year, Number of days the pump was unused or under breakdown/repairs. **Seamless or with sim (data-card) (communication pack cost will be borne by bidder) provision for data fetching will be provided by successful bidder.**
- The following details should be marked indelibly on the motor pump set
 - a. Name of the Manufacturer or Distinctive Logo.
 - b. Model Number.
 - c. Serial Number.
- The Suction/delivery pipe (GI/HDPE), electric cables, floating assembly, civil work and other fittings required to install the Motor Pump Set.

5. MOUNTING STRUCTURES and TRACKING SYSTEM

The PV modules should be mounted on metallic structures of adequate strength and appropriate design, which can withstand load of modules and high wind velocities up to 150 km per hour. The support structure used in the pumping system should be hot dip galvanized iron with minimum 80 micron thickness.

To enhance the performance of SPV water pumping systems, manual or passive or auto tracking system **must** be used. For manual tracking, arrangement for seasonal tilt angle adjustment and three times manual tracking in a day should be provided.

6. MOUNTING STRUCTURES and TRACKING SYSTEM

- Maximum Power Point Tracker (**MPPT**) should be included to optimally use the Solar panel and maximize the water discharge.
- Inverter could be used, if required, to operate an A.C. Pump. The inverter must have IP 54 protection or must be housed in a cabinet having at least **IP54** protection.
- Controller for BLDC motor driven pumps, if required be used. The controller must have **IP 54** protection or must be housed in a cabinet having at least IP 54 protection.
- Adequate protections should be incorporated against dry operation of motor pump set, lightning, hails and storms.
- Full protection against open circuit, accidental short circuit and reverse polarity should be provided.

7. ON/OFF SWITCH

A good reliable switch suitable for DC use is to be provided. Sufficient length of cable should be provided for inter-connection of the PV array, Controller / Inverter and the motor pump set.

8. WARRANTY

The PV Modules must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. The whole system including submersible/ surface pumps shall be warranted for 5 years. Required Spares for trouble free operation during the Warrantee period should be provided along with the system.

9. OPERATION AND MAINTENANCE MANUAL

An Operation and Maintenance Manual, in English and the local language, should be provided with the solar PV pumping system. The Manual should have information about solar energy, photovoltaic, modules, DC/AC motor pump set, tracking system, mounting structures, electronics and switches. It should also have clear instructions about mounting of PV module, DO's and DONT's and on regular maintenance and Trouble Shooting of the pumping system. Name and address of the person or Centre to be contacted in case of failure or complaint should also be provided. A warranty card for the modules and the motor pump set should also be provided to the beneficiary.

10. NOTES

The type of pump set used must match the total dynamic head requirement of the site (i.e. the location at which it is installed). Moreover, it should be appropriately tested and certified by the authorized test centres of the Ministry to meet the performance and water discharge norms specified in section II above.

ANNEXURE – I

Indicative Technical Specification of **Solar Deep Well (submersible)** Pumping Systems:

With **D.C. Motor Pump** Set with Brushes or Brush less D.C. (B.L.D.C.)

Description	Model-III	Model-IV	Model-V
PV array	3000 Wp	3000 Wp	3000 Wp
Motor capacity	3 hp submersible with controller	3 hp submersible with controller	3 hp submersible with controller
Shut Off Dynamic Head	45 meters	75 meters	100 meters
Water output*	105,000 liters per day from a total head of 30 meters	63,000 liters per day from a total head of 50 meters	42,000 liters per day from a total head of 70 meters

- Water output figures are on a clear sunny day with three times tracking of SPV panel, under the "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m. on the surface of PV array (i.e. coplanar with the PV Modules).

Notes:

1. For higher or lower head / PV capacity, or in between various models; water output could be decided as per the clause II. (i.e. performance specifications and requirements) specified earlier.
2. If surface pumps are used in lieu of submersible pumps, the water output must match that of the submersible pumps as specified in this table.
3. Module mounting structure shall be MS hot dipped galvanized, with a facility of manual tracking at least three times a day.

ANNEXURE – II

Indicative Technical Specification of **Solar Deep Well (submersible)** Pumping Systems:

With **A.C. Induction Motor Pump** Set and a suitable Inverter:

Description	Model-III	Model-IV	Model-V
PV array	3000 Wp	3000 Wp	3000 Wp
Motor capacity	3 hp submersible with controller	3 hp submersible with controller	3 hp submersible with controller
Shut Off Dynamic head	45 meters	75 meters	100 meters
Water output*	96,000 liters per day from a total head of 30 meters	57,000 liters per day from a total head of 50 meters	39,000 liters per day from a total head of 70 meters

- Water output figures are on a clear sunny day with three times tracking of SPV panel, under the "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m. on the surface of PV array (i.e. coplanar with the PV Modules).

Notes:

1. For higher or lower head / PV capacity, or in between various models; water output could be decided as per the clause II. (i.e. performance specifications and requirements) specified earlier.
2. If surface pumps are used in lieu of submersible pumps, the water output must match that of the submersible pumps as specified in this table.
3. Module mounting structure shall be MS hot dipped galvanized, with a facility of manual tracking at least three times a day.

Annexure-1

Format for Covering Letter

(To be submitted in the official letter head of the company)

To,

The Managing Director,
The Odisha Agro Industries Corporation Ltd.,
95- Satyanagar, Bhubaneswar, Khordha,
Odisha-751007

Sub: Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of 3 HP Solar Water Pumping System (SWPS) for Irrigation Purpose in the State of Odisha.

Ref : EOI No./OAIC/SPV/SWPS-3HP/18-19

Sir,

We are hereby submitting our offer in full compliance with the terms and condition of the above NIB No. We have submitted the requisite amount of "Earnest Money" in the form of Bank Guarantee/Demand Draft, valid for twelve months and Bid fee.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-2
Check List for Technical bid

S. No.	Particulars	Yes / No	Page No.
1	Covering Letter as per Annexure-1 .		
2	Information about the Bidder as per Annexure-3 .		
3	Declaration by Bidder as per Annexure-4 .		
4	Authority Letter for Signing Bid Document & Attending Bid Opening Meeting as per Annexure-6		
5	The proof of supply of solar system in any SNA/Govt. organization/PSU in the last seven years as per NIB in Annexure-8 to indicate the quantity already supplied. Attach copy of the order and certificate indicating its successful execution.		
6	The bidder is registered PV System Integrator or Manufacturing company of SPV cells or PV Modules or PV System Electronics confirming to relevant National/International Standards (Attach relevant certificates of Industry Department or MNRE).		
7	To indicate the functionality of the firm attach the balance sheet of last three years ending 31.03.2017/2018 of the firm duly certified by statutory Auditor.		
8	Registration certificate of MSME of Odisha State (Enclose certificate issued by Industry Department, Govt. of Odisha).		
9	IEC/IS certificates for Solar PV Module (Attach relevant certificate).		
10	Test certificate for solar water pumping system from the authorize test centers of MNRE (attach valid test certificate issued in the name of bidder)		
11	A copy of valid GST registration certificate		
12	Details of tender document fee (Bank Draft No. and Date)		
13	Details of Earnest money Deposit (Bank Guarantee/DD Number & Date)		

** Please number the pages of the uploaded documents and write it in the box.*

Please ensure:

- i) That all information is provided strictly in the order mentioned in the check list mentioned above.
- ii) Bidders are advised to strictly confirm compliance to bid conditions and not to stipulate any deviation/conditions in their offer. Subsequent to bid submission, OAIC may or may not seek confirmations/clarifications and any offer(s) not in line with Bid conditions shall be liable for rejection.
- iii) Any clarification/confirmation bidder may require shall be obtained from OAIC before submission of the bid. Bidder shall submit complete bidding document including subsequent amendment, modification and revision, duly signed and stamped as a token of having read, understood and accepted all the terms and condition mentioned therein.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-3
Information About The Bidding Firm

(To be submitted in the official letter head of the company)

SL. No.	Particulars	
1.	Name of the Bidder	
2.	Address of Bidder with Telephone, Fax, email	
3.	Address of the Registered Office	
4.	Address of the works	
5.	GPS Co-ordinate of Registered Office	
6.	GPS Co-ordinate of Factory Campus	
7.	Name & Designation of Authorized Signatory for Correspondence (Attach Power of Attorney as per Annexure-6)	
8.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Ltd. Co./Public Sector)	
9.	Permanent Account Number (PAN)/TIN (Attach proof)	
10.	Udyog Aadhar Number (MSME of Odisha)	
11.	GST Number (Attach proof)	
12.	System Integrator/ Manufacturer of SPV module/Controller/ Invertors/ Pump	
13.	Registration Number of the firm/co. (Copy of Registration Certificate issued by Industry Department)	
14.	Details of in-house testing facility (Attach Proof)	
15.	Office/ Dealer and Service network in Odisha with TIN No.(Give details)	
16.	Quoted quantity	
17.	Particulars of Earnest Money	
18.	Place where Materials will be Manufactured	
19.	Place where Materials will be Available for Inspection	
20.	Name of the Contact Person for this NIB with Designation, email, phone & Mobile number	
21.	Other details and remarks, if any	

Yours faithfully,

(Signature of Authorized Signatory)

Name :
Designation :
Company seal :

(Separate sheet may be used for giving detailed information duly signed)

Annexure-4**Declaration by the Bidder**

(To be submitted in the official letter head of the company)

I/We _____ (here in after referred to as the Bidder) being desirous of tendering for the rate contract for work under the above mentioned tender and having fully understood the nature of the work and having carefully noted all the terms and conditions, specifications etc. as mentioned in the tender document, DO HEREBY DECLARE THAT

1. The Bidder is fully aware of all the requirements of the tender document and agrees with all provisions of the tender document.
2. The Bidder is capable of executing and completing the work as required in the tender.
3. The Bidder accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
4. The Bidder has no collusion with any employee of OAIC or with any other person or firm in the preparation of the bid.
5. The Bidder has not been influenced by any statement or promises of OAIC or any of its employees, but only by the tender document.
6. The Bidder is financially solvent and sound to execute the work.
7. The Bidder is sufficiently experienced and competent to perform the contract to the satisfaction of OAIC.
8. The information and the statements submitted with the tender are true.
9. The Bidder is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
10. The Bidder has not been debarred from similar type of work by any SNA/ Government Dept. /PSU.
11. This offer shall remain valid for Six months from the date of opening of the tender.
12. The Bidder gives the assurance to execute the tendered work as per specifications terms and conditions.
13. The Bidder confirms the capability to supply and install required no. of systems per month.
14. The Bidder accepts that the earnest money be absolutely forfeited by OAIC if the Bidder fails to undertake the work or sign the contract within the stipulated period.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-5

Format For Financial Requirement – Annual Turnover

[On the letterhead of Bidding Company]

To,

The Managing Director,

The Odisha Agro Industries Corporation Ltd.,

95-Satyanagar , Bhubaneswar,

Khordha, Odisha-751007

Sub: **Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of 3 HP Solar Water Pumping System (SWPS) for Irrigation Purpose in the State of Odisha.**

Dear Sir,

We certify that the Bidding Company had an average Annual Turnover of Rs. -----
----- based on audited annual accounts of the last three years ending 31.03.2017/18.

Authorized Signatory

Date:

Annexure -6

Format of Power of Attorney for Signing Bid

POWER OF ATTORNEY

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)

Know all men by these presents, we.....(name and address of the registered office) do hereby constitute, appoint and authorize Mr. / Ms.....(name and residential address) who is presently employed with us and holding the position of.....

as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our bid, including signing and submission of all documents and providing information / Bids to Odisha Renewable Energy Development Agency, representing us in all matters before [Insert Name], and generally dealing with The Odisha Agro Industries Corporation Ltd in all matters in connection with our bid for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For

_____Signature (Name, Designation and Seal)

Accepted by

..... (Signature) (Name, Designation and Seal)

(Name, Title and Address of the Attorney)

Note: The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, lay down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Annexure-7**Details of Orders Received and Executed in Last Year**

Details of Orders Received & Executed by the Manufacturer/Contractor for Supply of **Solar Water Pumping System** to SNA/ Govt. Organization during Last Five Years.

SL. No.	Name of Agency/ Organization	Purchase Order No., Date & Ordered Qty.	Name of Model	Delivery Schedule	Date of Full Supply with letter no. & date of the performance certificate	Page number of the Work order/ purchase order submitted	Page number of the performance certificate submitted

Yours faithfully,

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Note:

- (a) Attach Photocopies of Purchase Orders
 - (b) Attach Photocopies of Certificate of Satisfactory Performance Issued by Concerned Nodal Agency/*PSU*/ Govt. Organization
 - (c) Separate sheet may be used for giving detailed information in seriatim duly signed with page number. Proof of work order/purchase order and corresponding performance certificate should be submitted/ enclosed in the bid. Non submission of the work orders and corresponding performance certificate will be treated as no experience.
-

Annexure-8**PRICE BID**

ABSTRACT					
Sl. No.	Particulars of work	Unit	Qty.	Rate in Rs.	Amount in Rs.
1	2	3	4	5	6
A	HEAD WORKS.				
	Sinking of Bore well up to 90 mtr. depth (200mm x 150mm) Bore with 30 mtr PVC casing.(Detail Estimate attached)	No.			
	Total				
B	Power Supply Cost (Solar Energy)				
	Supply and Installation of 3.0 HP submersible solar DC/AC pump set with suitable solar module (3000 wp), Galvanised iron structure, controller, suitable riser pipe fitted with theft protected nut & bolts.	No.			
	Total				
C	Supplying and Installing set of 75mm HDPE water carrying pipe with Rain gun.	set			
	Total				
	TOTAL COST (A +B+C)=				

for SWPS are complete in all respect as per Technical Specifications inclusive of all Central/State/Local taxes & duties, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc. FOR destination at any site in Odisha and inclusive of installation, testing, commissioning, performance testing and training.

- Bidders shall quote the above rates as per the total rate quoted in Annexure 11 (a). It is mandatory to quote the rate component wise as per Annexure 11 (a) and should be scanned and uploaded in pdf. Format in BOQ.
- Certified that rates quoted for SWPS are as per specifications, terms & conditions mentioned in the bid document.

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Price Bid

Statement showing the component wise cost details with brand name, for the quoted price, for Submersible solar pump sets.

SINKING OF CLUSTER DEEP BORE WELL					
Sl.No	Item of Work	Unit	Rate	Qty.	Amount (in Rs)
1	Labour for drilling a perfectly vertical bore hole of specified dia for a specified depth below ground level through consolidated and unconsolidated rock with down the hole hammer rig or combination drilling rig (1200 cfm/300psi) as required to suit the site condition as per direction of the Engineer in Charge including use of own/hired/leased rigs with its accessories, tools, plants and consumables etc. for lowering of 200mm dia PVC/GI pipes for housing with or without well screen as per the necessity for soft, medium, hard and boulder formation (suitable casing P.V.C. pipe, if required to prevent collapse of over burden is to be provided by the service provider including lowering and withdrawing after completion of the bore well).200mm dia to 400 mm dia in over burden portion including packing of gravel supplied by the service provider for 400mm dia bore only, where ever necessary and as per direction of the Engineer-In-Charge				
	Drilling to accommodate 200 mm x 150 mm size vertical bore hole (0.00 to 100.00 mtr)	Mtr			
2	a) Lowering the PVC/GI casing pipe of 200mm dia with or without slotted pipes as per the necessity from ground level to 20 Mtrs. or above depth and fitted and fixed up in perfectly vertical position, including cutting, threading and slotted pipe and supply and fixing all jointing materials, tools and plants etc. complete and keeping the top of the casing pipe threaded including plugging the bore well to prevent entry of foreign materials from above.(0 to 30Mtr=30Mtrs)	Mtr.			
	b) Supply of 200mm nominal diameter pipe of reputed made having 12.434 kg/wt per meter schedule 80 PVC pipe.	Mtr.			
3	Cleaning and developing the tube well using their own compressor continuously worked till clear and adequate discharge is obtained from the well including supply and use of all necessary equipment and labour as per the direction of the Engineer-in-Charge	each			
4	Conducting yield test through pumping for minimum 6 - 8 hours including supply of required pump set of 5 HP, 15 KVA D. G. set and a container of 200 ltrs. Capacity as required to suit the site condition as per the direction of the Engineer-in-Charge including supply of tools plants laborers for lowering and lifting the pump set and measuring the yield of the bore well.	each			
	G.TOTAL				
	Add SGST				
	Add CGST				

All the above items are as per MNRE specifications and also as per the test report issued by the authorized test centers of MNRE. These rates are applicable for supply & installation of solar pumps sets anywhere in the State.

(Signature of Authorized Signatory)

Name :

Annexure-8(b)**Price Bid****INSTALLATION OF PHOTOVOLTAIC WATER PUMPING SYSTEM
(SOLAR ENERGY)**

Sl. No.	Particular	Unit	Qty	Unit Rate	Amount
1	Cost of 3.0 HP submersible solar DC/AC pumpset specified under JNNSm issued by MNRE, Govt of India with suitable solar module (3000 wp) conforming to IEC 61215 Edition II / BIS 14286 / IEC 61730-1-2/UL 1703 / IEC 60904 from an MNRE approved laboratory, Galvanised iron structure as per IS 2629/ IS 2633/ IS 4759 of minimum coating thickness of 70 microne, controller, suitable riser pipe fitted with thept protected nut & bolts and including cost of transportation to site, loading & unloading and cost of insurance etc.	No.			
2	Cost of installation, commissioning and required civil work complete.	No.			
	Total				

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Annexure-8(c)**Price Bid**

INSTALLATION OF 75MM RAINGUN UNIT					
Sl. No.	Particular	Unit	Qty	Unit Rate	Amount
1	75mm dia HDPE water carrying pipe (Class-II)	No.			
2	Rain-gun	No.			
3	Tripod stand	No.			
4	HDPE PCN male ended 75mm	No.			
5	HDPE Bend with Coupler	No.			
6	HDPE End Plug	No.			
7	HDPE TEE with Coupler	No.			
8	HDPE QC PCN Fabricated 75mm	No.			
10	By Pass Assembly 2"	No.			
11	Screen Filter 20/25m/hr	No.			
	Total				
	CGST @ in %				
	SGST @ in %				
	Grand Total				

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

(This bid Performa must be submitted duly signed in case separate sheet is submitted)

Annexure-9**FORMAT FOR PERFORMANCE GUARANTEE**

(On Non-Judicial Stamp Paper)

To be stamped according to Stamp Act and to be in the name of the executing Bank

To:

The Odisha Agro Industries Corporation Ltd,
95-Satyanagar, Bhubaneswar-7.

In consideration of the Director of Agriculture, having its registered office at “The Odisha Agro Industries Corporation Ltd,”95-Satyanagar, Bhubaneswar-7 (hereinafter called the “Authority” which expression shall unless repugnant to the subject or context include its administrators successors and assigns) having agreed under the terms and conditions of the Award Letter bearing No _____ dated _____ issued by the Authority, which has been unequivocally accepted by the Vendor (refer NOTE below) work of _____ (hereinafter called the said Contract) to accept a Deed of Guarantee as herein provided for Rs. _____ (Rupees _____ only) from a Bank, in lieu of the security deposit, to be made by the Vendor or in lieu of the deduction to be made from the Vendor’s bill, for the due fulfilment by the said Vendor of the terms and conditions contained in the same Contract.

We _____ the _____ (hereinafter referred to be “the said Bank” and having our registered office at _____ do hereby undertake and agree to indemnify and keep indemnified to the Authority from time to time to the extent of Rs. _____ (Rupees _____ only) against any loss or damage, costs charges and expenses misused to or suffered by or that may be caused to or suffered by the Authority by reason of any breach or breaches by the Vendor and to unconditionally pay the amount claimed by the Authority on demand and without demand to the extent aforesaid. We, _____ Bank, further agree that the Authority shall be the sole judge of and as to whether the said Vendor has committed any breach or breaches of any of the terms and conditions of the said Contract and the extent of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the Authority on account thereof and the decision of the Authority that the said Vendor has committed such breach or breaches and as to the amount or amounts of loss, damage, costs charges and expenses caused to or suffered by or that may be caused to or suffered by the Authority from time to time shall be final and binding on us.

- 1) We, the said Bank, further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said contract and till all the dues of the Authority under the said Contract or by virtue of any of the terms and conditions governing the said Contract have been fully paid and its claims satisfied or discharged and till the owner certifies that the terms and conditions of the said Contract have been fully and properly carried out by the Vendor and accordingly discharges this Guarantee subject, however, that the Authority shall have no claim under the Guarantee after 180 (One Hundred Eighty) days from the date of expiry of the contract period.

- 2) The Authority shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee or indemnity, from time to time to vary any of the terms and conditions of the said contract or to extend time of performance by the said Vendor or to postpone for any time and from time to time any of the powers exercisable by it against the said Vendor and either to enforce or forbear from enforcing any of the terms and conditions governing the said contract or securities available to Authority and the said Bank shall not be released from its liability under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the said Vendor or any other forbearance, act or omission on the part of the Authority or any indulgence by the Authority to the said Vendor or any other matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so releasing the Bank from its such liability.
- 3) It shall not be necessary for the Authority to take legal action against the Vendor before proceeding against the Bank and the Guarantee herein contained shall be enforceable against the Bank, notwithstanding any security which the Authority may have obtained or obtain from the Vendor shall at the time when proceedings are taken against the Bank hereunder be outstanding or unrealised.
- 4) We, the said Bank, lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Authority in writing and agree that any change in the Constitution of the said Vendor or the said Bank shall not discharge our liability hereunder. If any further extension of this Guarantee is required the same shall be extended to such required periods on receiving instructions from M/s. _____ on whose behalf this guarantee is issued.

For and on behalf of (the bank)

Signature :

Name & Designation :

Authorisation No. :

Date and Place :

Bank Seal :

The above guarantee is accepted by the Authority.

NOTES :**FOR PARTNERSHIP CONCERNS**

M/s. _____ a partnership firm with its office _____ (hereinafter called “the said Vendor” which expression shall unless the context requires otherwise include their heirs, executors, administrators and legal representatives); the name of their partners being

- 1) Shri _____ S/o
- 2) Shri _____ S/o

FOR COMPANIES

M/s. _____ a company registered under the Companies Act 1956 and having its registered office in the State of _____ (hereinafter called “the said Vendor” which expression shall unless the context requires otherwise include its administrators, successors and assigns).

FOR TRUST

M/s. _____ a company registered under the Bombay Public Trust Act 1850 and having its registered office in the State of _____ (hereinafter called “the said Vendor” which expression shall unless the context requires otherwise include its administrators, successors and assigns).

FOR SOCIETIES

M/s. _____ a company registered under the Societies Registration Act, 1860 and having its registered office in the State of _____ (hereinafter called “the said Vendor” which expression shall unless the context requires otherwise include its administrators, successors and assigns)

Annexure-10**Contact Person for the NIB**

[On the letterhead of Bidding Company]

1	Name of Proprietor/ Partners/ CMD/Director	
2	Contact Person name for the NIB	
3	Designation	
4	Contact No. (phone & mobile)	
5	Fax No.	
6	e-mail ID	
7	Corresponding address with pin code	
8	Remarks	

(Signature of Authorized Signatory)

Name:

Designation:

Company Seal:

Annexure-11**Format for Quarterly O&M and CMC Report**

[On the letterhead of Bidding Company]

To,

The Managing Director,
 The Odisha Agro Industries Corporation Ltd.,
 95- Satyanagar, Bhubaneswar, Khordha,
 Odisha-751007

Dear Sir,

Sub: Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of 3 HP Solar Water Pumping System (SWPS) for Irrigation Purpose in the State of Odisha.

Date of Installation.....

OAIC Dispatch Order No..... Dated.....

Place of Supply.....

Name of Technicians.....

S. N.	Place of Installed System	System Details	Date of Site Visit/CMC	Fault observation	Fault repaired	Status of the system
		Module No.				
		Pump				
		Inverter/Controller				
		Any other				

(Signature of Consignee)

Name:

Designation:

Seal:

Signature of Agency with Seal**Signature of OAIC representative**