Micro Irrigation and Command Area Development Authority

(MICADA), Haryana

Notice Inviting E-Tender

Micro Irrigation and Command Area Development Authority (MICADA), Haryana invites E-tenders for the following work at an estimated cost of Rs.**1028.73** lacs (lump-sum cost including all taxes, duties, labourcess, GST, costs etc.): -

Sr. No.	Name of work	Fee	Dates
1.	Planning, Design, Supply, Installation, Testing, Commissioning and Operation & Maintenance for 3 Years (including three years free maintenance of on-farm Micro irrigation System)after one year assured performance demonstration /defects liability period, whichever is later, of Grid/Solar Powered Integrated Micro-Irrigation Schemes in the command(s) of the existing outlets of various distributaries/minors in various Districts of Haryana – on EPC mode under Hybrid Annuity based Model (HAM) at outlet RD-41473/L Ahulana Disty. of Samalkha block of District Panipat under MICADA Division, Panipat	Bid Document Fee Rs. 20000/- EMD: Rs. 20.57 lacs	i. Online Sale of Bid Document: 24-02-2023, Time 11:00AM. onward ii. Last date of submission of online Bids: 17-03-2023 date Upto1:00 PM time. iii. Technical Bid opening Date: 17-03-2023 date at 03:00 PM time

For further details visit website **https://etenders.hry.nic.in**

Executive Engineer,
MICADA Division,
Panipat.

Signature of Contractor | No. of Corrections | Signature of Engineer

Micro Irrigation and Command Area Development Authority (MICADA), Haryana

Detailed Notice Inviting E-Tender

Executive Engineer, MICADA Division, Panipat Micro Irrigation &Command Area Development Authority (MICADA), Haryana invites online bids from eligible bidders through e-tendering, on behalf of Governor of Haryana, for the following Work, as per the scope of work mentioned hereinafter: -

Description of Work	**Estimated Cost (Rs.in Lac)**	**Completion Period**	**Cost of Bid Document (in Rs)**	**E/Money Deposit (Rs.in Lac)**
Planning, Design, Supply, Installation, Testing, Commissioning and Operation & Maintenance for 3 Years (including three years free maintenance of on-farm Micro irrigation System) after one year assured performance demonstration /defects liability period, whichever is later, of Grid/Solar Powered Integrated Micro-Irrigation Schemes in the command(s) of the existing outlets of various distributaries/minors in various Districts of Haryana including low pressure pipeline infrastructure from the outlet to On-Farm pond– on EPC mode under Hybrid Annuity based Model (HAM). at outlet Rd-41473/L Ahulana Disty of Samalkha block of District Panipat under MICADA Division, Panipat	1028.73	24 Months	20000/-	20.57

2. **Brief Scope of work: -**

The brief scope of work shall include, but not limited to, the following:

2.1 Planning, Design, Supply, Installation, Testing, Commissioning and Operation & Maintenance for 3 Years (including three years free maintenance of on-farm Micro irrigation System) after one year assured performance demonstration / defects liability period, whichever is later, of Grid/Solar Powered Integrated Micro-Irrigation Schemes in the command(s) of the existing outlets of various distributaries/minors in various Districts of Haryana including low pressure pipeline infrastructure from the outlet to On-Farm ponds– on EPC mode under hybrid annuity based Model (HAM) **at outlet RD-41473/L Ahulana Disty. of Samalkha block of District Panipat under MICADA Division, Panipat** covering total CCA of about **292** ha. (as per the details provided in Section 6 of the Bid Document).

2.2 Collection/preparation of Index maps of the command area of the project covered under the contract indicating the existing roads, canals, structures, T/wells, and all other important features.

2.3 Survey and preparation of contour maps and chak plans/ sub chak plans for the existing outlets of various distributaries/minors in various, Districts of Haryana and collection of all the field data relating to rainfall, climatic conditions, soil, ground water, cropping pattern/crop yields, farmers' holdings, schedule of running of the distributaries/minors existing Grid power infrastructure of the DISCOM serving the command area etc., as may be required for proper planning, design, installation& operation of the complete IMI Schemes.

2.4 **Preparation of detailed plans, chak plans/ sub chak plans, etc**.

2.4.1 Preparation of detailed plans, chak plans/ sub chak plans for the existing outlets for installing IMI schemes and designs and detailed Bill of Quantities of various items involved based on such designs for the complete Integrated Micro irrigation (IMI) system including low pressure pipeline infrastructure along with balancing reservoir, Brick/concrete lined On- Farm pond(s), NP2 RCC(Gravity/Low pressure)/ PE Pipeline network, the solar pumping set(s), ON- Farm MI and construction/supply/installation/handholding of Farmers thereof, in each outlet command as per the design criteria/guidelines provided in the Bid Document and the site specific requirements and as per the directions of the Engineer in-charge.

2.4.2 The contractor will finalize location of On-farm pond for each sub chak on the basis of undertaking furnished by Farmers or availability of land for Construction of On-Farm Ponds, Solar PV Water Pumping Systems, Filters, Fencing/gate, etc. He shall design the sub chak in such a way that the required land is located where the farmers are ready to give the land free of cost. However, the Contactor shall plan size of the sub chaks in such a way that all owners of land of the proposed sub chak agree for accepting micro irrigation, and they also agree to provide land for construction of the farm

pond and ancillary works free of cost. Farmers of the command area may construct farm ponds themselves or through the Contractor and the subsidy shall be released to the farmers as per existing On-Farm Pond policy of Govt.(MICADA), as the case may be. However, it shall be responsibility of Contractor to invite applications from farmers as to whether they want to construct On-farm ponds themselves or they would like to get these constructed from the Contractor. Procedure of payment to the Contractor for On-farm ponds shall be governed as per sub Clause 33.1of SCC.

2.4.3 Solar Photovoltaic Water Pumping System: Farmers of catchment area may install Solar PV Water Pumping Systems themselves or through the Contractor at the farm ponds and the assistance shall be released to the farmers as per existing scheme of Govt.(HAREDA)subsidies, as the case may be. However, it shall be responsibility of Contractor to invite applications from farmers as to whether they want to install Solar PV Water Pumping Systems themselves or they would like to get these installed from the Contractor. Procedure of payment to the Contractor for Solar Photovoltaic Water Pumping System shall be governed as per sub Clause 33.2of SCC.

2.4.4 On Farm Micro Irrigation System (OFMIS): The Contractor shall invite applications from farmers of the command area for supply & installation of on-farm micro irrigation system & install the same as per requirement. Farmers are free to get installed the type of on-farm micro irrigation system (drip irrigation/mini sprinkler/portable sprinkler system) as per their field cropping pattern. Procedure of payment to the Contractor for OFMIS shall be governed as per sub Clause 33.3 of SCC. The payment made to the contractor shall be reduced to such an extent as the applicable farmer's share of the OFMIS to be paid directly by the farmer to the vendor/contractor.

2.5 Design, procurement, supply, installation, testing and commissioning of the Solar PV Water Pumping Systems consisting of the following components:-

2.5.1 Solar panels mounted on suitable structures. However, Pump House(s) at Outlet(s) for supplying canal water to On-Farm ponds, if required to counter the elevation of chak, through the low-pressure pipeline will be grid based only.

2.5.2 All power conditioning systems including junction boxes, Invertors/PCUs, DC & AC circuit breakers, electronic protections, interconnect cables etc.at the pump house located at outlet.

2.5.3 11KV, 3 phase, Power transmission line/ Cabling and associated equipment i.e., transformers breakers, isolators, lightning arrestors, panels, protection system, etc. for connecting into the nearest Power Substations of DISCOM for the Pump House at the outlet as per the technical specifications, State electricity regulations and requirements of the Power DISCOM.

2.5.4 Submersible pumping sets as per the technical specifications

2.5.5 FiltrationunitscomprisingHydroCyclonefilters,MediafiltersandStrainerfiltersonthepumpingsystemsaspertechnicalspecifications.Control Room of size and dimensions as per drawing for housing the control panels, meters, etc.

2.6 Design, procurement, supply, laying, jointing, testing and commissioning of the NP2RCC/ PE Pipeline Networks including all associated fittings/accessories and hydrant assemblies/valves as per the technical specifications.

2.7 Design, procurement, supply, laying, jointing, testing and commissioning of the low-pressure pipeline (NP2 RCC) infrastructure from theoutletto On- Farm pond including balancing reservoir, pump house, pumping machinery and all auxiliary components as per technical specifications, complete in all respects.

Low pressure pipeline infrastructure means a low pressure pipeline of suitable material(preferably NP2 RCC) as per design requirements from the outlet to On- Farm ponds and includes balancing reservoir (including any other pump house required on the low pressure pipeline as per site requirements), complete pumping machinery at the pump house(s) such as required no. of Axial flow V-T pumps of required discharge and head; motors of required no. and power rating, Motor Control Centre LP Panels required for the motors, and earthing, complete in all respects including all its allied accessories. It also includes sluice valves, pressure relief valves, air valves, outlet assemblies, piping at the pump house, complete in all respects including all its allied accessories.

2.8 Supply and erection of the wild animal control chain link Mesh Fencing of both ends twisted fabric.

2.9 Supply & Installation of Drip irrigation System & Mini Sprinkler System.

2.10 All associated civil engineering works including design, site grading, cutting, filling, leveling & compaction as may be required for construction of foundation & mounting structures for SPV Panels, filters, fencing/gate, laying of NP2 RCC/ PE Pipelines, laying low pressure pipeline infrastructure, etc.

2.11 Demonstration of performance of the IMI Schemes in each low-pressure pipeline/ Gravity flow pipeline outlet command including Defects liability for one year after commissioning as per the tender requirement. Performance of IMI Schemes includes low pressure pipeline infrastructure from outlet to On-Farm ponds.

2.12 Operation& maintenance of the complete IMI Schemes right from outlet for 3 years including three years free maintenance of on-farm Micro irrigation System (OFMIS) after successful commissioning and demonstration of performance for one year including supply and storage of all spare parts, consumables, repairs/replacement of any defective equipment etc.

2.13 Obtaining all associated statutory and regulatory compliances and approvals for successful and timely installation, commissioning and operation of the IMI Schemes.

2.14 Identification of training needs of the farmers, preparation of training modules on various subjects concerning operation and maintenance of the IMI Schemes, Solar array & pumping systems and cropping pattern etc., and providing necessary training to the farmers as per the identified needs.

2.15 The Contractor must ensure the Handholding, awareness of farmers/ shareholders of the chak and motivate them for adoption of Micro Irrigation along with crop diversification. At all stages, active participation of the beneficiary farmers will be ensured by the contractor. For the purpose of coordinating with the farmers, the Contractor shall assist the farmers in the formation of group of farmers/ Water Users' Association for each village/chakto fetch maximum benefit of government's policies relating to adoption of Micro Irrigation and crop diversification.

3. **Availability of Bid Document (Request For Proposal): -**

Bid document can be downloaded from the e-tendering website **https://etenders.hry.nic.in/ HEWP Portal** against payment of non-refundable cost of bid document of Rs. **20000/**- payable through Demand Draft in favour of Executive Engineer, MICADA Division, Panipat. Scanned copies of the instruments for payment of the Bid Document cost and the Earnest Money Deposit will be uploaded with the online bid in Cover-I and the original instruments will be delivered physically in a sealed cover in the office of the Executive Engineer by the due date. Interested Bidders may view, download the Bid Document and submit their bid online up to the date & time mentioned in the table below.

4. Pre-Bid Meeting: -

Pre-Bid meeting shall be held in the Office of Executive Engineer, MICADA Division on 03-03-2023 at 1:00 PM. Prospective Bidders may attend the meeting for any clarification and/or making any suggestion regarding qualification criteria and technical specifications.

5. Key Dates:-

Sr.No.	Activity	Start Date & Time	Expiry Date & Time
1	Bid DocumentDownload& Online Bid Submission	24-02-2023 at 11:00AM	17-03-2023 at 1:00PM
2	Manual Submission of Bid Document Cost and EMD	-Not allowed/Only online submission	
3	Pre-Bid Meeting	03-03-2023 at 1:00 PM	
3	Technical Bid Opening	17-03-2023 at 3:00 PM	
4	Financial Bid Opening	After approval of technical bid	

6. Eligibility and Qualification Criteria of Bidders:-

Bidding shall be open to all the eligible bidders as defined under clause 3 of the Instructions to Bidders (Section-I of the Bid Document) and meeting the Qualification criteria stipulated therein under clause 4.2.

7. Bid Submission: -

7.1 The Bid shall be submitted online by the Bidder in the following three separate Parts/covers:-

(a) **Cover I – Fee (Earnest Money Deposit and Bid Document Cost)**: Scanned copes of the Instruments for payment of Bid Document cost and Earnest Money Deposit. Originals shall be submitted physically in a sealed cover in the office of the Executive Engineer before the deadline stipulated above.

(b) **Cover II – Technical Bid**: Bid Form with Qualification information in the forms provided along with scanned copies of the relevant documents and technical proposals as defined under clause 4.1 of the Instruction to the Bidders (ITB).

(c) **Cover III – Financial Bid** : Price Bid in the form of BOQ provided mentioning the Lump Sum cost Scheme-wise (including all Central/State/local taxes, duties, labour cess, GST, any other charges and costs etc.) along with detailed price breakup for all the components involved.

7.2 Bidders are advised to study the Bid Document carefully and to visit the sites of the work before submitting their bids. Submission of online Bids shall be deemed to have been done after careful study and examination of the scope of the work, site conditions, procedures, terms and conditions stipulated in the Bid Document with full understanding of all the relevant aspects.

7.3 All the prospective bidders are required to possess digital signature certificate (DSC) through any certifying authority designated by the Govt. of India and enroll themselves and DSC on the website.Bidders may seek help specifically provided for contractors on the e-tender portal for submission process of the bids and the bidder will be solely responsible for any error in online submission of the bid.

7.4 No modification/withdrawal of the Bids shall be permitted after expiry of the deadline for online bid submission.

7.5 All the Bidders will have to compulsorily give complete address, telephone, mobile numbers and e-mail Id. The e-mail Id will be considered as primary means of communication.

7.6 If bid receiving (manual part only)/opening day happens to be a holiday, bids will be received/opened on the next working day at the same time and venue.

7.7 Conditional bids are liable to be rejected out rightly at the discretion of the competent authority. In the alternative, competent authority may consider the conditions as null and void and make a counter offer to the bidder to do the work at the quoted price without conditions.

8. **Bid Opening: -**

8.1 The Bids will be opened by the respective Executive Engineer,MICADA on the scheduled date and time in his office in the presence of biddersor their duly authorized representatives who may like to be present.

8.2 In the first instance, the Cover I of all the Bidders containing the Bid Document cost and EMD shall be opened online as well as physically. The Cover II containing the Technical Bid of those Bidders whose Bid Document cost and the EMD, received online as well as physically, are found proper and in order shall only be opened. Bids not accompanied with the Bid Document Cost and/or the Earnest Money Deposit shall be summarily rejected.

8.3 Financial Bids in Cover III shall be opened online in respect of those Bidders only who are found to meet the stipulated Qualification criteria on scrutiny/evaluation of their Technical bids. Date of opening of the Financial bids shall be fixed and communicated to the Bidders found to be technically qualified after opening and evaluation of the Technical bids.

9. Competent authority is not under any obligation to accept the lowest bid and reserves the right to reject any or all of the bids or to cancel/withdraw the Notice inviting Tenders without assigning any reason and in such case no bidder/intending bidder shall have any claim whatsoever arising out of such action.

10. The bid shall be valid for 90 days from the date of opening of the financial bids.

11. Any further details of the work can be seen in the office of theChief Engineer,MICADA, Panchkula or concerned Executive Engineer, MICADA Division, Panipat on any working day.

12. The Contractor shall execute the whole and every part of the work in the most substantial and satisfactory manner and both as regards materials and otherwise in every respect, in strict accordance with the approved designs, drawings and specifications. The specification of works, material, and methodology of execution with Quality Assurance Plan, preliminary drawings/design shall be signed by the Contractor and Engineer while executing agreement and shall form part of agreement.

13. The jurisdiction of court will be at Panchkula/ District Headquarter of respective Executive Engineer.

Signature of Contractor | No. of Corrections | Signature of Engineer