

Government of West Bengal
Department Of Water Resources Investigation & Development
Office of the Project Director, West Bengal Accelerated Development of Minor Irrigation Project
(WBADMIP)
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“ Purchasing 1 HP Solar Powered Portable Water Pumping Set (Pump on Wheels) under WBADMI Project.”

Request for Expression of Interest (REOI)

Notice No- ADMIP/EOI/21-22/06 dated 15.07.2021

1. This Request for Expression of Interest under this Project has been notified in the web site: www.wbadmip.org on 15.07.2021.
2. The Government of India (GoI)/ Government of West Bengal (GoWB) received financing from the World Bank to finance the West Bengal Accelerated Development of Minor Irrigation Project (WBADMIP) up to Dec,2019 and now GoWB is running the WBADMI Project under the State Fund. The WBADMI Project intends to procure few suitable ‘solar powered portable water pumping sets (Pump on Wheels)’ of different design available in the market for field testing (robustness, suitability, sustainability & acceptability etc among farmers under Water Users Association (WUA) of the Project).
3. The **Scope of Specifications for the said Pump on Wheels** would broadly include but not limited to the following features & accessories etc.:-

1 HP Solar Powered Portable Water Pumping System on Wheel for different districts under WBADMI Project with minimum 1000 Watt peak Photovoltaic Array capacity, head range 10-13 meters, for 1HP pump(AC), **1phase/3phase motor with VFD with IP 54 protected qualifying IEC61683, IEC 60068-2 with Three pin socket for A/C input and Surge Protection Device, change over Switch for A/C to D/C with suitable size water pump** - Discharges (Litres/day) 60000-85000 from a depth of 5 to 7 meters (considering 6hrs. sunny day), mounted on van-rickshaw or other arrangement for portability, foot-valve, suction (10 meters) & delivery (5 meters) pipe (2”) with one year warranty and three years maintenance period after warranty period:

1. The entire structural construction**should be made of Galvalume with S.S. Steel Nuts & Bolts or suitable light materials (which would be approved after inspection by Expert Technical Team). The wheels and axels arrangement of the trolley should be within 30 kgs. Weight of the structure including module and pump set and controller will be up to 125kgs.
2. Length of the complete product should be 2500mm (max.) only.
3. Breadth of the complete product should be 1100mm (max.) only.
4. Height of the product from ground should be 2500mm (max.) only.
5. The chassis of the trolley should be made of Galvalume (C-Chanel) or other size light materials. C Channel size: 40 mm to 80mm.
6. Wheels of the trolley should be fixed with the main structure by shock absorbing arrangement (U-shaped) & wooden support etc or suitable arrangement.
7. Toolkits for the trolley and solar system should be attached.
8. Easy to install by only one farmer at the field.
9. Name plate, covers of SPV array, stand, pulling mechanism & other required specifications of the structure if any etc. would be as per requirement.
10. Weight of single Solar PV Module (1m X 1m, $\pm 5\%$) should not be more than 11kgs.
11. Maximum one number of Solar PV Module should be placed in **Horizontal** during movement of the trolley. Photovoltaic Module should never be placed one on top of the other.
12. Only Mono (crystalline) PERC Cell Solar PV Modules with IEC 61215 and IEC 61730 (part-I&II) should be used.
13. PV Input voltage of controller should not be less than 220 volts (open circuit voltage).
14. The 1.0 HP solar single/three Phase pump with all accessories should be placed within the trolley.

**** Different types of structural design for the 1 HP Solar Pump set (Pump on Wheels) will also be acceptable if the detail design & drawings are provided with the submission.**

4. The Executive Engineer on behalf of the Project Director, WBADMIP, invites eligible Manufacturer/Assembler to indicate their interest for the above procurement.
5. The Manufacturer/Assembler should have their/his/her own manufacturing/assembling capacity.
6. The Shortlisting Criteria for Manufacturer/Assembler for issuing direct RFQ will be as follows :

- Capacity of the Manufacturer/Assembler: The average annual turnover should be INR 40 Lakhs during last financial year (2020-21). Turn over during 2020-21 may be in the form of certificates from C.A. (documents/information need to be submitted)
 - Proven experience & field of expertise on i) supply of Solar Pumping Sets or ii) installation of solar pump sets of 1HP or more capacity for irrigation purpose to Govt /Semi Govt./Govt. undertaking organisation. (documents/information need to be submitted)
 - Availability of adequate infrastructural facilities for manufacturing/assembling of portable Solar Pump set. Intending Firms should have an **operational office** in Kolkata or nearby districts. (documents/information need to be submitted)
 - Intending Firm should have valid PAN, GST registration, Trade License, Professional Tax Clearance Certificate (P.T.C.C), latest I.T. Return etc. (documents/information need to be submitted)
 - Detail design documents is to be submitted for different types of structural design which deviates from the above specification. (documents/information need to be submitted)
7. The Expert Technical Team will be formed for inspection of the 1HP Solar Portable Pump Set at the field. After initial shortlisting of the participants on the basis of the submitted documents the Expert Technical Team will visit (only in & around Kolkata or nearby districts) the manufacturing/assembling site for testing the set/s. The recommendations for improved performance of the set on small technical issues from the Expert Technical Team will be obligatory to the manufacturer/assembler. Otherwise their (manufacturer's/assembler's) offer shall be rejected.
 8. The Manufacturer/ Assembler will be selected in accordance with as follows-
 - a. After receiving the EOI, Initial Shortlisting will be done on the basis of submitted documents.
 - b. The Expert Technical team will visit the manufacturing/assembling site (where testing facility is available) for testing performances, acceptability, sustainability, required discharges & robustness of the Solar pumping set/s of the initial shortlisted companies/firm only. Any recommendation on small technical issues for improved performance of the Solar Pump Set has to be rectified within a certain period.
 - c. After that period final testing will be done by the Expert Technical Team. The Team will report for approved sets for the field.
 - d. On the basis of the Report from the Expert Technical Team, final short listed Firms will be issued with RFQ to quote their rate/s for the above noted Pump set for each approved design. (For many types of approved design one firm can quote rates on the single sheet or on separate sheets citing the design for which rate is quoted with required documents if needed).
 9. The WBADMIP reserved the right to issue the work order/s to the firms/ companies on the basis of the report of the Expert Technical Team for approved designs/testing. The WBADMIP may or may not purchase any or all the approved design solar pump sets without incurring any liability to the firms/companies.
 10. Interested Firm/Company may obtain further information at the address given above from 12.00 – 16.00 hours (IST) on all working days. This notice for Expression of Interest has also been notified on WBADMIP website: www.wbadmip.org
 11. Expression of Interest (EOI) with all relevant information and documents must be submitted within **30.07.2021 upto 14.00 hours at above noted address**. Opening of EOI will be on **30.07.2021 at 14.30 hours**. In the event, this opening date being declared as holiday by the State Government, due date for opening of above Request for EOI will be the next working day up to the same appointed time.
 12. In this regard, the Purchaser reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids at any time prior to issuing work order/s, without thereby incurring any liability to the affected Bidder or Bidders.

Sd/-
Executive Engineer
SPMU, WBADMIP