RA Number: GEM/2020/RA/44766
Dated: 09-07-2020

RA Document

RA Details	
RA Technical End Date/Time	20-07-2020 09:00:00
RA Opening Date/Time	20-07-2020 09:30:00
RA Life Cycle (From Publish Date)	90 (Days)
RA Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Uttar Pradesh
Department Name	Urban Development Department Uttar Pradesh
Organisation Name	E-municipalities - Eservices To Citizens And Employees Of Urban Local Bodies Of Uttar Pradesh
Office Name	Nagar Palika Baruasagar
Total Quantity	1
Item Category	DC SPV Deep Well (Submersible) Pumping Systems
Experience Criteria	1 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance	10 %
Inspection Required	No
Estimated RA Value	550122

EMD Detail

Advisory Bank	ICICI
EMD Percentage(%)	5.00
EMD Amount	27506

ePBG Detail

Required	No

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:
Lekh Lipik
nagar palika baruasagar, Urban Development Department Uttar Pradesh, e-Municipalities - eServices to citizens and Employees of Urban Local Bodies of Uttar Pradesh ,
(Sandeep Singh Sengar)

Splitting

RA splitting not applied.

1. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of years as indicated in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
2. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 10% of bid quantity, in at least one of the last three years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one year) to be submitted along with bid in support of quantity supplied in the relevant year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

DC SPV Deep Well (Submersible) Pumping Systems (1 pieces)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
PV ARRAY	Operation of SPV Pumping System	The SPV water pumping system should be operated with a required PV array	*

		capacity measured under Standard Test Conditions (STC).	
	Number of modules in series and parallel used to obtain the required PV array power output	3	*
	Power output of individual PV modules used in the PV array, under STC (Watts peak, Wp)	320	*
	Source of PV Module	Indigenously produced PV module (s) containing mono/ multi crystalline silicon solar cells	*
	PV module certification	Certificate as per IEC 61215 specifications or equivalent National or International/ Standards	*
	Safety Qualification Testing	Modules must qualify to IEC 61730 Part I and II for safety qualification testing	*
	Efficiency of the PV module (%)	14	*
	Fill factor for PV module (%)	70	*
	The terminal box on the module should have a provision for “Opening” for replacing the cable, if required	Yes	*
	Dimension of PV module (mm x mm x mm)	-	*
	Marking On PV module	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	*
GENERIC	Deep Well Solar Pumping Systems , With DC Motor Pump Set with Brushes or Brush Less DC(BLDC)	Solar Photovoltaic (SPV) Water Pumping Systems comprising PV Array, DC Motor Pump Set, MPPT(Maximum Power Point Tracke)	*

		,Electronic Protections , Interconnect Cables and “On-Off” switch are basically for “Irrigation” applications. However, these may also be used for “Drinking Water Applications wherever such capacities are required”	
	DC Motor	Brush Less D.C.(B.L.D.C.)	*
	Conformity to Indian Standard for Shallow Well (Surface) Solar Pumping System	Ministry of New and Renewable Energy ,Jawaharlal Nehru National Solar Mission ,Solar Photovoltic Water Pumping System -2015-16	*
	Model Number as per MNRE specification	Model-I	Model-I
	Solar PV Water Pumps with PV module capacity may be installed on a suitable bore-well / open well / Water Reservoir / Water stream etc	1200 Wp	1200 Wp
Motor Pump Set	**Submersible motor pump with controller Capacity**	1	1.0
	Type of DC Motor	Brush Less D.C.(B.L.D.C.)	*
	Numbers of poles of motor	2	*
	Motor speed (in rpm)	3200	*
	Bore Size	100	*
	Delivery Size	32	*
	Suction Head	100	*
	The suction/ delivery pipe (GI/HDPE), electric cables, floating assembly, civil work and other fittings required to install the Motor Pump set	yes, inclusive	*
	Material of suction Pipe	ISI Marked HDPE Pipe to IS 4985	*

	Length of Suction Pipe	80	*
	Material of Delivery Pipe	ISI Marked HDPE Pipe to IS 4985	*
	Length of Delivery Pipe	150	*
	Pump material	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.	*
	Marking on Motor pump	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.	*
MOUNTING STRUCTURES AND TRACKING SYSTEM	Mounting on metallic structures	The PV modules should be mounted on metallic structures of adequate strength and appropriate design	*
	Mounting Structure Type	Pole type structure	*
	Strength of mounting structure	suitable to 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	Yes	*
	Tracking system	Manual	Manual
	Arrangement for seasonal tilt angle adjustment	For manual tracking, arrangement for seasonal tilt angle adjustment and three times manual tracking in a day should be provided	*
	Type of Controller	DC	*
	Remote monitoring of Pump	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	
	Provision 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	Yes	*
ELECTRONICS AND PROTECTIONS	Maximum Power Point Tracker (MPPT)	Maximum Power Point Tracker (MPPT) should be included to optimally use the Solar panel and maximize the water discharge.	*
	Controller for BLDC motor driven pumps	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	Yes	*
	Full protection against open circuit, accidental short circuit and reverse polarity should be provided	Yes	*
	ON/OFF Switch	A good reliable switch suitable for DC use is to be provided. Sufficient length of cable should be provided for interconnection of the PV array, Controller and the motor pump set.	*
	Spares	Required Spares for trouble free operation during the Warrantee period should be provided along with the system.	*
	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 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.	
PERFORMANCE	**Shut Off Dynamic head**	45	45.0
	Water Output on a clear sunny day with three times tracking of SPV panel, under the “Average Daily Solar Radiation”	42,000 litres per day from a total head of 30 metres	42,000 litres per day from a total head of 30 metres
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 10 metres (Suction head, if applicable, minimum of 7 metres) and with the shut off head being at least 1	100 liters of water per watt peak of PV array,	*
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set	50 liters of water per watt peak of PV array,	*

	with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 20 metres (Suction head, if applicable, up to a maximum of 7 metres) and with the shut off head being at least 25 metres		
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 30 metres and the shut off head being at least 45 metres	35 liters of water per watt peak of PV array	*
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 50 metres and the shut off head being at least 70 metres	21 liters of water per watt peak of PV array	*
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 70 metres and the shut off head being at least 100 metres	14 liters of water per watt peak of PV array	*
	Minimum water output from a Solar PV Water Pumping System For DC Motor Pump Set with Brushes or Brush Less DC(BLDC) from a Total Dynamic Head of 100 metres and the shut off head being at least 150 metres	9.5 liters of water per watt peak of PV array,	*
CERTIFICATION	BIS CM/L number and validity of ISI marked Submersible Pump	-	*
	Availability of Type Test Report to prove	Yes	*

	conformity of parameters as per MNRE specification form MNRE empanelled for solar pump laboratory		
	Test Certificate No and Date	-	*
	Name of the Lab where test Conducted	-	*
	Test Report to be furnished to the buyer on demand	Yes	*
	Scope of Supply	with errection and commissioning at consignee end	*
	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 Pumping system including pump shall be warranted for 5 years.	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignee/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days	
1	Sandeep Singh Sengar	284201,nagar palika baruasagar jhansi	1	30	N/A

Bid Specific Additional Terms and Conditions

1. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
2. ISO 9001: The bidder must have ISO 9001 certification.
3. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer’s Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
4. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.
5. To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): 1.

6. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
7. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
8. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
9. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide AMC Service for next 1 years for the offered products at the rate not more than 1 % of contract price per annum. Buyer reserves the right to enter into an AMC agreement (covering preventive maintenance and servicing)with the Successful Bidder / OEM after expiry of the Warranty period at rate as mentioned above and the payment for the AMC charges would be made Annually after rendering of the AMC Services of the relevant AMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the AMC contract when called upon by the buyer. The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 2% of total AMC value valid up to AMC period plus 2 months (if there is no other claim). (Undertaking of acceptance to be uploaded with bid).
10. Bidder / OEM has to give an undertaking that after expiry of warranty period, it will provide Comprehensive Maintenance Service for next 1 years for the offered products at the rate not more than 1 % of contract price per annum. Buyer reserves the right to enter into a CMC agreement with the Successful Bidder / OEM after expiry of the Warranty period at above mentioned rate and the payment for the CMC charges would be made Annually after rendering of the CMC Services of the relevant CMC period. Performance Security of the successful bidder shall be forfeited if it fails to accept the CMC contract when called upon by the buyer. CMC would include cost of 1 (Upload the undertaking). The original Performance Security of contract will be returned only after submission and verification of AMC Performance Security for 2% of total CMC value valid up to CMC period plus 2 months (if there is no other claim).
11. Over and above the normal Warranty terms as per GeM GTC, the successful bidder / OEM shall have to provide Comprehensive Warranty during the entire Standard warranty period as per contract. : The comprehensive warranty shall be covering the following scope 1 (Upload an undertaking with the bid confirming compliance by the bidder if Bidder is taking onus of this compliance. In case OEM is taking onus of this compliance, OEM undertaking is to be uploaded along with Bidder undertaking)
12. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.
13. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imberse the cost of such service / rectification to the Buyer.
14. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

This RA is also governed by the General Terms and Conditions

---Thank You---