

Minutes of Pre –Bid Meeting for Procurement of Pico Turbines for Decentralized Green Energy Development by using hydro power generation upto 5KW in Meghalaya

Place: Shillong

Date: 27th January, 2020

Time: 11:00 AM

Participants from MBDA and other agencies: Attendance Sheet Attached

Queries submitted in written and raised by the agency/agencies during the pre-bid meeting held on **27th January, 2020** and clarifications with regard to RFB for **Procurement of Pico Turbines for Decentralized Green Energy Development by using hydro power generation upto 5KW in Meghalaya** are as follows:

Sl. No.	RFB Clause	Page No.	Queries	MBDA Response
1	POST QUALIFICATION CRITERIA, Sr No.2 Technical: If bidder is supplier of the product(s) then it should have at least three (3) years'experience of trading: Experience in similar product(s) i.e. Pico turbines, with minimum INR 4 crore in two contracts within last 03 years. (single contract of the required or higher value may also be acceptable) or a single contract for having supplied 200 numbers of similar turbines.	50	Please clarify if Bidders having experience of design, engg, manufacturing, installation, commissioning of small hydro Turbines or PAT for private / Govt Power project are also eligible to quote PICO Turbines.	Accepted

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2	POST QUALIFICATION CRITERIA, Sr No.3 Technical: if the bidder is a manufacturer of the product(s) then it should have at least three (3) years of experience of manufacturing and sale of the products offered: Experience in similar product(s) i.e. Pico turbines, with minimum INR 4 crore in two contracts within last 03 years. (single contract of the required or higher value may also be acceptable) or a single contract for having supplied 200 numbers of similar turbines.	51	Please clarify if Bidders having experience of design, engg, manufacturing, installation, commissioning of small hydro Turbines or PAT for private / Govt Power project are also eligible to quote PICO Turbines.	Accepted
3	PQ Criteria		Domestic Supplier Preference not indicated. Please confirm if tender is specifically allowed for domestic suppliers inline with Make In India policy of Govt of India.	There is no preference for any suppliers; all eligible suppliers meeting the criteria are invited to apply.
4	(g) Specific additional criteria. Warranty: 2 years	52	Warranty is generally 12 months from date of equipment dispatch from factory. Is this acceptable?	Operations and Maintenance for 5 years including 1 year warranty period. Please refer to Addendum.
5	(g) Specific additional criteria O&M: Operations and Maintenance for 5 years including 2 years warranty period	52	MBDA is purchasing Authority of PICO. Can they organize respective plant's O&M from their own agency / source instead of PICO Supplier? As the PICO turbines shall be installed over a large number of	O&M includes capacity building and trainings to the stakeholders and also hand holding support so that they have the confidence to take up O&M at their level with necessary support

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			location, open to sky working conditions etc.. It would be extremely difficult to provide O & M.	in rare cases.
6	(g) Specific additional criteria Capacity Building (g) Specific additional criteria: Capacity Building	52	Please elaborate this requirement for understanding of Bidder	Capacity Building of the Village Energy Committee Members specially the Operators on O&M.
7	Technical Specifications of PICO	78	Various combined specifications are shown generic in nature. Output of each PICO depends upon Fixed Head and Flow acting on it. Hence please clarify Fixed Head, Discharge values for each PICO unit enabling supplier to choose models from product basket and offer competitive prices.	The minimum head is 9 m and the maximum is 35 m, the discharge will be from 10 ltrs/sec and above.
8	General		Do you accept a speed of 3000 rpm instead of 750 rpm since PICO with 3000 rpm is cost effective design and construction	The RPM is removed from the Technical Specification of Pico Turbine. Please refer to Addendum.
9	Section VII - Schedule of Requirements, 3. Technical Specifications: 4. Technical Specifications:	78	Kindly provide Fixed Technical specification for each site with Capacity, No. of Units, Discharge Range and Head	Specs has been shared in the RFB however Heads that are targeted are between 10-30m with minimum

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	1. Technical Specification for Pico Turbines or Hydro Generators: o Capacity : 3kW ~ 5kW o Discharge Range : 10 - 40 lts/sec o Head Range : 9 - 35 m		Range in the technical specification.	discharge of 10 LPS
10	Section VII - Schedule of Requirements, 3. Technical Specifications: 4. Technical Specifications: 1. Technical Specification for Pico Turbines or Hydro Generators: o Shaft & Nozzle Material : M/Steel o Gross Weight : 78 Kilograms o Nozzles : 1 or 2 depending on head and discharge. o Bearing 2 nos : 1 Roller Bearing (Top), 1 Taper Roller Bearing (Bottom) o Turbine Turgo runners on Steel Hub : 18 to 43 nos depending on discharge.	78	Specification / material of different components are not clearly provided. Please allow us to consider standard materials for the individual components and standard PICO unit supply.	Allowed
11	Section VII - Schedule of Requirements, 3. Technical Specifications,; 4. Technical Specifications: 1. Technical Specification for Pico Turbines or Hydro Generators: o Rated RPM : 750 o Permanent Magnet : core type (8 poles) with copper winding alternators	78	For Pico Turbines speed consider as 750 RPM is too less. Kindly raise the speed of operation upto 3000 RPM Max	The vendor to propose accordingly.

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12	Section VII - Schedule of Requirements, 3. Technical Specifications: In case of any defective parts of the Pico Turbines/Hydro Generators, the Manufacturer/ Supplier shall replace the defective part or the whole Machine completely without any additional cost.	79	In case of any defective parts of the Pico Turbines/ Hydro Generators, the Manufacturer/ Supplier shall replace the defective part or the whole Machine completely without any additional cost during supply only. Please confirm.	Only the defective part
13	Section VII - Schedule of Requirements, 3. Technical Specifications. 5. Inspections and Tests Complete hardware and software as specified in section VI should be supplied, installed and commissioned properly by the supplier prior to commencement of performance tests.	84	Please clarify/provide Section VI requirements as Section VI is not used.	This refers to section VII, technical specifications, typo regretted.
14	Section VII - Schedule of Requirements, 3. Technical Specifications: 5. Inspections and Tests An average uptake efficiency of 98% (to modify as considered appropriate for each case) for the duration of test period shall be considered as satisfactory.	84	No technical inputs are available about hardware and software. Same may be provided	As per MNRE standards
15	(e) Civil works: Facilitate the community to take-up Civil Works	79	Civil works, intake & outfall piping, valves etc.. shall be done by MBDA or	The supplier will need to facilitate the process. Actual construction

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	(Construction of intake structure, forebay, penstock, platform for mounting the Pico Turbines/Hydro Generators, power house, Controller including the laying of ,transmission line etc) as per specification in the DPR.		their contractors / agencies independently. PICO suppliers do not envisage this activity being not his area of expertise. Pl confirm	work will be initiated by MBDA.
16	<p>Terms of payment GCC 16.1:</p> <p>1. Payment will be made phase wise: 70 percent on Delivery and remaining 30 percent on installation and acceptance of the turbines for the respective phase.</p> <p>2. Payment for Operations and maintenance will be paid on annual basis after the completion of one year of warranty period</p>	112	<p>We propose following terms for supply portion:</p> <p>-15% Advance payment on agreement signing</p> <p>-10% Advance payment on Drawing submission</p> <p>-70% payment with taxes to be released within 15 days from date of equipment dispatch and submission of dispatch documents</p> <p>-5% payment upon receipt of material at MBDA storage facility duly acknowledged by MBDA, within max 30 days from date of dispatch from factory.</p>	If required, any changes to the payment terms will be discussed & finalized with the selected vendor at the contract award stage, as of now no change.
17	General: Payment for O&M:		Payment of O&M for respective site will be given on monthly basis i.e. within 15 days in subsequent month.	No Change
18	General: Contract method not specified		There shall be separate contract for Supply and O&M.	No. Only one single contract will be signed with the supplier; however goods and O & M payments will be

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			Separate contract for Supply Portion shall be entered with successful bidder.	mentioned separately.
19	Terms of payment GCC 18.1: Performance Security to the Purchaser shall be for an amount of 5% of the total contract value, valid upto 60 days after the date of completion of performance obligations of five years including warranty obligations of two years.	112	Supply Performance security of 5% shall be released within 30 days, once the complete ordered lot is received by MBDA at their warehouse. Supply performance security shall not be linked with installation, commissioning, O&M period or warranty period	The provision has been made like to ensure that the services are made available to MBDA throughout the 5 years after installation,
20	Terms of payment GCC 27.1: The liquidated damages shall be: 0.5% of contract price per week or part thereof.	114	The liquidated damages shall be: 0.5% of undelivered portion and not on contract price	Liquidated damages will be on the supply part of the contract. and not on the O & M period.
21	The maximum amount of liquidated damages shall be: 10%		The maximum amount of liquidated damages shall be: 0.5% on undelivered portion	NO Change, although as mentioned above, LD will be imposed only on the supply portion of the contract.
22	General: NIT Information: Last date and time for : February 15, 2020 at 1600 hrs. for Submission and receipt of bids		Last date please may be extended to 10 March 2020 in order to prepare offer and technical document as per tender after taking feedback from MBDA Pre bid replies if released on 28 Jan 2020	Please refer to Addendum.
23	NIT Information:		There is no indication about estimated price for this contract.: Same may be	The estimated cost of the assignment is not to be disclosed.

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			intimated for information	
24	Payment method: Not mentioned in tender document.		<p>Initial 10% payment by RTGS Next 15% payment by RTGS Progressive 70% payment with taxes through Letter of credit Last 5% payment through LC</p> <p>Irrevocable LC of any nationalized Bank shall be established on supplier, within 30 days from date of signing of contract and to be kept valid till delivery or any extension period. LC opening charges on MBDA account and negotiation charges on supplier account.</p>	All payments will be made using RTGS in the Bank account of the supplier.

Sd/-
Shantanu Sharma, IAS
Executive Director
Meghalaya Basin Development Authority

Pre-Bid Meeting for Procurement of Picco Turbines

VENUE: MBDA office

DATE: 27.01.2020

TIME :- 11:00 AM

ATTENDANCE SHEET

Sl.No	NAMES	DESIGNATION	ORGANIZATION	PHONE NO	EMAIL ID	SIGNATURE
1	L.Shabong	OSD	MBDA/MINR	9436103321	shabongls@gmail.com	
2						
3	Evelyn M. Panat	Programme Associate	MBDA	7005120481	evelynpaniat@gmail.com	<i>[Signature]</i>
4	Mantel Rei	Asst. Mgr	MBM n	92089051225	mbdaprocurement@gmail.com	<i>[Signature]</i>
Vendors Attendance						
1	Sachin Deshpande	Manager - Power	Kiosloskar Bros. Ltd.	9922944916	sachin.deshpande@kbl.co.in	<i>[Signature]</i>
2	RAHUL GUPTA	DIRECTOR	PAVI BROTHERS CHANNEL PARTNER KBL	9831234954	sales@ravibrothers.com	<i>[Signature]</i>
3	Ron Sassoon	General Manager - Power	kiosloskar Brothers Ltd	986908591	ron.sassoon@kbl.co.in	<i>[Signature]</i>
4	Mike Donald Khyiem	Programme Associate	MBDA	9862504863	mike.khyiem@gmail.com	<i>[Signature]</i>
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