TENDER FOR

DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING AND COMMISIONING OF 150KW DISTRIBUTED ON THE TERRACE OF COLLEGE BUILDING OF GURU NANAK KHALSA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), MATUNGA, MUMBAI – 400 019 GRID-CONNECTED SOLAR PV POWER PLANT UNDER ROOF-TOP NET METERING WITH 05 YEARS OF COMPREHENSIVE MAINTENANCE

Tender Reference No. _____/gnkc/RUSA/2020-21 dated 04.09.2020

https://mahatenders.gov.in

TENDER DOCUMENT

Office Address

Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous),
Nathalal Parekh Marg, Matunga, Mumbai – 400 019

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SECTION-I

BID INVITATION

Brief Description of the Bidding Process

Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), invites eligible bidder to submit a bid in accordance with the provisions of this Tender Document. In this Tender Document, the term "Bidder", which expression shall, unless repugnant to the context, include all parties who have submitted bids in response to this Tender Document within the stipulated time frame for submission.

- The Bidders shall submit the bids in two parts by following etendering process described in bidding documents. First part comprises of the technical bid and the second part comprise of the financial bid in accordance with this Tender Document.
- In terms of the Tender Document, a Bidder will be required to deposit non- refundable Tender document fee, along with its tender, the refundable Earnest Money Deposit (EMD).

Principal and Committee Members of Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous) will open the technical bid of the Bidder, by e-tendering process. The financial bid will be opened of those bidders which are qualified in technical bid.

BIDDING INFORMATION:

1	Tender Reference No.	E-Tender Notice No. 01/2019_20_1
2	Date of sale of Tender document	04/09/2020 From 12.00 am
3	Date and Time of Pre-Bid Meeting	
4	Last date and Time of submission of Bids	18/09/2020 Up to 5.00 pm
5	Date & Time of opening of Technical Bid.	21/09/2020 11.00 am on wards

6	Estimated Cost.	Rs.70,00,000 /-	
7	Earnest Money Deposit (EMD) by way of Demand Draft drawn in favour of "Governing Body, G.N.Khalsa College"	Rs. 70,000/-	
8	Security Deposit:	3% of contract value by Demand Draft (DD)/FDR in favour of Governing Body G.N .Khalsa College.	
9	Address for communication and Venue for Tender opening	Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Nathalal Parekh Marg, Matunga, Mumbai – 400 019	
10	Tender Document fee	Rs. 1,120/- (Rs. One Thousand One Hundred Twenty Only) Non-refundable & Non-Transferable) to be submitted online.	

The date & time of opening of Price Bid will be announced later.

SECTION-II

INFORMATION AND INSTRUCTION TO BIDDERS

Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Nathalal Parekh Marg, Matunga, Mumbai – 400 019 invites bids from eligible bidders for "works" include Design, Fabrication, Supply, Installation, Testing, Commissioning and Maintenance of 150 KW distributed on THE TERRACE OF COLLEGE BUILDING OF GURU NANAK KHALSA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS) Grid connected solar PV plant under roof top net metering with 5 years of Comprehensive maintenance

SCOPE OF CONTRACT

The Scope of contract is as below:

- Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Nathalal Parekh Marg, Matunga, Mumbai – 400 019, invites bids from eligible bidders for "works" include Design, Fabrication, Supply, Installation, Testing, Commissioning and Maintenance of 150 KW distributed on THE TERRACE OF COLLEGE BUILDING OF Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Grid connected solar PV plant under roof top net metering with 5 years of Comprehensive maintenance.
- Free replacement of defective components of systems within Comprehensive Maintenance Contract period (CMC) of 5 years after commissioning for efficient running of the Grid-connected Solar Photovoltaic Power Plants and Off- Grid solar PV Plant.
- Successful Bidder(s) will be responsible to register these projects by management arrangements and rules, regulations and modalities as per MNRE and the contractor for effective implementation of the project

- The Works are to be carried out at Guru Nanak Khalsa College of Arts, Science and Commerce (Autonomous), Nathalal Parekh Marg, Matunga, Mumbai – 400 019, in the State of Maharashtra. Bidder can quote only after the site visit And Upload Site Visit format duly signed by beneficiary
- The successful Bidder will be required to complete the works within the stipulated time as specified in the tender document. The bidder shall ensure that at site Solar Photovoltaic Power Plants should be installed and commissioned within 45 Days from the date of receipt of workorder.
- Selected bidder is bound to maintain the system as per the rules and regulations and modalities as prescribed by MNRE for effective functioning of the project.
- Bids shall be complete and cover all Works described in the tender. However, if any item of works required for completing the projects shall be deemed to be included in bidder's scope irrespective of whether it is specifically mentioned or not in the tender document.
- Selected Bidder is bound to carry out all the procedure related to installation of Net Meter on the site of the project.
- Bidder should obtain statutory permissions from statutory bodies wherever required for execution of works.
- Bidder shall quote for the complete systems. Partial bids or bids which do not cover the entire scope of the project will be treated as incomplete and not responsive to the terms and conditions of tender are liable to be rejected.

1. ELIGIBILTY

The bidder shall provide sufficient documentary evidences to satisfy the following conditions:

- They should provide valid registration certificate issued by MNRE and IEC certificate of SPV Module & Inverter and test report from authorized test centre of MNRE, GoI.
- Bidder should have valid electrical contractor license by IEL department government of Maharashtra.
- Bidder have atleats one certified electrical supervisor
- The Bidder should have installed & commissioned 150KW capacity (single or cumulative)
 Grid-connected roof top mounted net metering systems the list of projects commissioned
 has to be submitted along with the tender. The copy of the Commissioning certificate and
 Work order / Contract / Agreement / from the Client / Owner shall be submitted.
- Scan copy of ISO certification
- S Scan copy of MSME Registration
- Scan copy of GST Registration
- Scan copy of Pan Card
- Scan copy of Income Tax Returns
- Turnover certificate (min 2 core in single year)
- Bidder should give Assurance of A) PV Modules used in Solar Power plants / systems must be Warranted for their output peak
- Watt capacity, which should not be less than 90%
- Scan Copy of Affidavit on (Rs.500/- Stamp Paper) For Technical Documents (Prescribed Form Attached) Contractor / Bidder
- · Has to submit the original copy of Affidavit before Date of opening of the Envelope No.1
- · Bid apaity certificate as per government of maharatsrat
- Bidder should have Site visit report along with bidder name and site name
- Google skechup shadow report along with bidder name and site name
- Pvsyst analysis report along with bidder name and site name
- Auto drawing of structure along with bidder name and site name
- 25 year degradation generation report along with bidder name and site name
- Bidder should have Solar module MAF certificate / Authority Letter From MAF
- Bidder should have Structure MAF certified / Authority Letter From MAF
- Bidder should have Inverter MAF certified/ Authority Letter From MAF
- Is certificate of module panel, battery, inverter and bos of systems.

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For submission of the bid (Grid connected), bidder must have to fulfil following criteria.

 Must have field service setup to prove good after sale services including necessary repair and maintenance in the State of Maharashtra, to carry out repair / replacement work within 72 hours from the time of reporting the fault as and when required over the period of 5 years i.e. CMC period.

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 Has provided goods after sale services for the works done by him during last three years.

Should not have Joint venture.

- Must have average annual turnover of minimum 50 Lakhs during last three years.
- All above criteria shall be strictly followed. Bidder should quote only if he is eligible.

2. STANDARDS / CERTIFICATES

- The goods supplied and works executed under this contract shall confirm to the standards mentioned in the technical specification and where no applicable standard is mentioned, the latest version of Indian Standard Institution or Bureau of Indian Specification shall be applicable.
- The Bidder shall submit all the valid test certificates and reports of the system components following the latest MNRE Guidelines and the same components shall be supplied for which the test reports/certificates are submitted.
- The manufacturer shall provide an indicator, which will show the status of charging.
- The manufacturer should submit test certificate of Module.

3. INSTRUCTIONS

- Bidder shall Submit Information (if not exempted),
 Experience Certificates, Test Reports and other such relevant document's specified in the list of other important documents.
- The bidder should visit the site and carryout the survey and

upload the Certificate indicating that the survey is carried out by the bidder as per Appendix – IV. The tender submitted without site visit report will be rejected out rightly.

Specification

150 KW Plant Technical Specification

SN	Description of Supply Items	QTY	MAKE	UOM
1.	Solar PV module: 335Wp, multi-crystalline/ high efficiency modules	448	Meeting tech specs	Nos
2.	(Elevated Module Mounting type structure for RCC roof - Fixed tilt structure and Microrailings for Tin roof structure)	5	Hot Dip Galvanized	Tons
3.	Grid Connect Solar Inverter (3 x 50 KW, 415V AC, 50Hz, MPPT). DC:AC» 1.3 max	3	Delta/ Sun Grow	Nos
4.	Data Monitoring-SIM Card	1	Inject Solar	Nos
5.	ACDB 2 I/P - 1 Out with 250 A 4P Isolator; MCCB with AC SPD Type 2	1	Schneider/ ABB	Nos
6.	Inverter Terminal Box	1	Syntax/ Hensal	Nos
7.	1C X 4 Sq.mm Cu Solar DC cable 1.5 KV (Array Interconnection &	5000	KEI / Polycab	Mtrs
8.	3.5 x 70 Sq.mm. XLPE Al Cable, 1.1 kV grade	50	KEI / Polycab	Mtrs
9.	3.5 x 150 Sq.mm. XLPE Al Cable, 1.1 kV grade	100	KEI / Polycab	Mtrs
10.	Earthing Kit	8		Nos
11.	Earthing Wire	100	KEI/ Polycab	Mtrs
12.	GI Earth Strip (25 mm x 5 mm)	400	GI	Mtrs
13.	Lighting Arrestor	2		Nos
14.	MC-4 Cable Couplers (Male & Female Pairs)	60	JAINSON / R&X	Nos
15.	Installation Kit (Comm. Cable, Inverter Canopy etc.)	1		Set
16.	Fire Extinguisher and Safety Kit (Bucket, Danger Labels)	1		Set
17.	Manual Module Cleaning System with 0.75" CPVC pipe, Valves and flexible hose Pipe on the roof.	1		Set