TATA INSTITUTE OF SOCIAL SCIENCES
V.N. Purav Marg, Deonar, Mumbai – 400 088.
(A Deemed University under Section 3 of the UGC ACT, 1956)

TISS/GENSET/2019 Dated:22 Jul 2019.

NOTICE INVITING TENDER FOR
SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF
KIRLOSKAR MAKE GENERATOR WITH AMF PANEL

The Tata Institute of Social Sciences(TISS) invites sealed bids from established, reputed and experienced firms for Supplying, installation, testing and commissioning of 82.5KVA Kirloskar make silent Generator with AMF panel. The contract also include the tranportation, loading and unloading of the generator at TISS, Mumbai including provision of earthing and laying of cable from Generator to AMF panel in meter room. Details of the services required and other terms and conditions relating to the award of Contract are given in Annexure–I.

2. Tender Document is available on the website of the TISS i.e. www.tiss.edu. The intending bidders may download the tender document containing the terms and conditions and submit the same by 1500 hrs on 29 Jul 2019.

ANNEXURE – I

TERMS & CONDITIONS

1.	Last date & time of receipt of Quotations	:	29.07.2019 1500 Hrs.
2.	Date & time of opening of Technical Bid	:	29.07.2019 1600Hrs.
3.	Place of Submitting quotations:		TATA Institute of Social Sciences, V.N. Purav Marg, Deonar, Mumbai–400 088.

4. **Site Visit:** Before tendering, the tenders are advised to visit the site and satisfy themselves before submitting their quotes. Tenderer shall be deemed to have considered site, whether he has inspected it or not, and to have satisfied himself in all respect before quoting his rates and no claim or extra charges whatsoever in this regard shall be entertained / payable by the TISS at a later date.

5. **Scope of work**: Supply, installation, testing and commissioning of 82.5KVA Kirloskar make silent Generator with AMF panel. The contract also include the tranportation, loading and unloading of the generator at TISS, Mumbai including provision of earthing and laying of cable from Generator to AMF panel in meter room.

6. **Eligibility conditions:**

(a) The vendor should be manufacturing companies/ authorized dealers of the equipment.
(b) The agency/ firm should be registered under Service Tax Registration/TIN/VAT Registration No. (copy to be attached)
(c) The details of inputs/information required to be submitted by the agency are listed in the format for Technical Bid (Annexure II).

7. **Technical Specification of Diesel Generating Set**:

(a). Diesel Engine: "KIRLOSKAR" make Diesel Engine suitable for above DG sets. The standard Design should consists of Direct injection, turbo-charged, four stroke liquid cooled technology confirming to BS:5514 and IS 10000 suitable for prime duty generating set application as follows :

KVA/ kW	Engine Model	BHP @ 1500 RPM	No. of Cylinders
82.5/ 70	4R 1040 TA G1	102	4

(b) The engine shall be complete with the following standard accessories:
(i) Dry type air cleaner

(ii) Exhaust silencer
(iii) Expansion bellows
(iv) Lube oil cooler
(v) Lube oil filter
(vi) Fuel filter
(vii) Radiator, radiator fan and mounting
(viii) Fuel pump with governor
(ix) Fly wheel with starter ring
(x) Battery charging alternator
(xi) 12 Volt electric starter motor

(c) Kirloskar Green Engine monitoring system – Model EMS KG934 with following safety features:

(i) Control panel consisting of built in on / off / Start key.
(ii) Battery charging voltmeter
(iii) Electronic Hour meter
(iv) Indication & Monitoring of Oil Pressure & safety trip in case of Low Oil Pressure.
(v) Indication & Monitoring of Coolant Temperature & safety trip in case of High Coolant Temperature.
(vi) In-built engine shut down system in case of Engine Over speed.
(vii) Indication & Monitoring of Fuel Level and alarm.

Set of documents comprising spare parts book and operation & maintenance manual

(d) Alternator (Kirloskar Green) should be suitably rated at 0.8PF, 415V, 3 Phase, 4 Wires, 50 Cycles/Sec., 1500 RPM, self-excited and self-regulated, with Brushless Excitation Band of voltage regulation + 1% of rated voltage, from no load to full load, Insulation class “H”. The alternator should conforms to BS: 2613/IS: 4722.

(e) Battery: 1 No.12 Volts Factory Pre-charged P.P. Battery with leads.

(f) Automatic mains failure (AMF) Control panel (Double Contactor): The Control Panel should be free standing, floor mounting, cubical type, front operated dust and vermin proof, fabricated out of 14/16 SWG MS CRCA Sheet duly POWER COATED after necessary pre- treatment process & consisting of following:

Power Circuit

Mains	DG Set
1 No. 4P contactor suitably rated	1 No. 4P contactor suitably rated
1 No. 3P MCCB suitably rated	1 No. 3P MCCB suitably rated

Control & Metering Circuit
1 No. KOEL Green EMS 545 Microprocessor based AMF logic controller.
1 No. kWh meter
1 No. Line Voltage Monitor L&T make.
1 Set of Control Fuses

1 No. Static Battery charger circuit with On / Off switch. Battery charger “ON” indication, Reverse Polarity indication, 1 No. DC battery charging ammeter

(g) Specification of KIRLOSKAR GREEN canopy

(i) Construction of Acoustic Enclosure Kirloskar Green Acoustic enclosure shall be powder coated and fabricated out of 1.4 / 1.5 mm thickness MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after surface treatment process of sheet metal. Canopy panel and doors shall have inside lining of Fire Retardant Foam as acoustic material. Hinged doors shall be provided to canopy, one door shall have glass window for control panel.

(ii) Surface Treatment-Painting The enclosure surface shall be suitably treated for surface treatment & High quality powder coating treatment/paint shall be used.

(iii) Base Frame Base frame is fabricated either in ISMC channel or in sheet metal. The base frame will be primer coated and painted. The base frame is rugged in construction and designed for mounting KOEL engine and KG alternator close coupled, with cross members mounted on AVM.

(iv) Fuel Tank Fuel tank shall be fabricated out of 14 SWG MS sheet and is part of base frame. It is duly painted and fitted with inlet and outlet connections.

(v) Noise suppressor (Silencer): Residential Silencer shall be provided to suppress exhaust noise from the engine.

(vi) Emergency Push Stop Button: The canopy shall have provision of emergency push button, external to the canopy.

(vii) Performance Parameters
The average sound level, when measured in green field condition (ISO 3744 OR 8528 PT 10) at 1-meter distance from all four sides shall be less than 75-dBA averages or as per CPCB-II norms.
The average stabilized hot air temperature rise with in the canopy is maintained within 10 deg C over and above ambient temperature.

8. General Terms & Conditions:

(a) The bidder should be a licensed dealer of the product.
(b) Tata Institute will not deal with any entity other than the authorized bidder, whatsoever the nature of its relation with the bidder.
(c) Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government.
(d) Technical Bid: The Technical bid should be complete in all respects

and contain all information about the Kirloskar Make 82.5 KVA Silent Diesel Generator. It should not contain any price information. However it should confirm that all required rates have been quoted in Commercial Offer (CO), without showing the actual amounts in the Technical Bid. It is mandatory to submit all the details in the prescribed formats duly filled in, along with the offer. Tata Institute at its discretion, may not evaluate a technical bid in case of non-submission or partial submission of technical details. The technical bid must be submitted by bidder to Tata Institute in an organized and structured manner.

(e) The bidder should fill the complete details in the technical bid format.

(f) Installation and commissioning should be done within 10 days of delivery.

(g) In case of any operational problem, the bidder should be able to resolve the problem within shortest possible time.

(h) Educational offer (if any) is to be provided.

(I) Annual turnover, GST registration certificate, PAN card, Authorization letter of the bidder should be provided.

(j) A declaration for having not been disqualified / black listed/ suspended from empanelment or from participation in any tender from Government or Quasi Government agency in the union of India.

(k) The manufacturer Quality Control Certificate should be accompanied with the final products.

(l) Incomplete specification/ documents offered by the bidder will not be considered and liable to be rejected.

(m) Quoted amount in the tender should include all applicable taxes, transport charges, installation charges and warranty.The net rate quoted per unit in respect of indigenous goods shall be for F.O.R. Destination, which should include all applicable taxes, insurance, freight charges etc.

(n) The Institute reserves the rights to accept, reject or postpone any or all of the Tenders without assigning any reason thereof.

(o) The bidders may please note that, the institute has the discretion to withdraw any or all the items invited under the subject notification at any time before issuing the supply order.

(p) In case of any dispute arising out of this contract, the decision of the Director is final.

09. **Statutory Clearance (s)**:- Approval/clearance of the complete installation shall be obtained by the contractor from CPCB/State Pollution Control Board/Local Bodies/Central Electricity Authority (CEA)/ other licensing authorities, wherever required.

10. **Submission of Tenders**:

(a) The technical and financial bids must be submitted in separate sealed cover in the format as prescribed in Annexure-II and Annexure-III respectively.

(b) Both the technical and financial bids are to be kept in a big sealed envelope.

(c) The big envelope containing the two envelopes must be superscribed “Tender for supply, installation, testing and commissioning of Kirloskar make generator”.

(d) The sealed envelope containing all bids must be dropped in the Tender Box kept at the Admin section of TISS at Deonar, VN Marg, Mumbai by 1500 Hrs. of 29.07.2019

(e) Commercial/Financial bids of only those bidders whose technical bids are acceptable/ qualified will be opened.

(f) Late/delayed tenders due to any reason, whatsoever, will not be accepted/considered, at all, under any circumstances.

11. **Performance Security:**

(a) The successful bidder shall be required to deposit an amount equal to 5% of the contract value within 10 days of issue of letter of intent, as Performance Security.

(b) Performance security shall be submitted in the form of Demand draft drawn in favour of "Tata Institute of Social Sciences" and shall be valid till completion of warranty period.

(c) Performance Security will be discharged after completion of contractor's performance obligations including warranty obligations under the contract.

(d) If the contractor fails or neglects any of his obligations under the contract, TISS reserve the right to forfeit either whole or any part of Performance security furnished by the bidder as penalty for such failure.

12. **Payment**: Payment to the selected agency shall be released after successful commissioning of the Generator within 15 days.

13. **Validity of Tender**: Rates quoted by the Firm shall remain valid for a period of 60 days or more.

14. TDS and any other Government levies applicable shall be deducted on bill amount as per Government of India instructions issued from time to time.

15. TISS reserve the right to accept or reject any or all the Tenders.

16. TISS reserves the right to cancel the Contract any time during the currency of the Contract without assigning any reason, whatsoever, if the services provided by the firm are found to be unsatisfactory.

ANNEXURE - II

PROFORMA FOR TECHNICAL BID

SNo.	Items	Information/ Inputs to be filled by the tenderer (If required separate sheets may be enclosed)
1	Name and Address of the firm/agency, telephone number, fax, mobile number, email address	
2	Type of organization (Whether proprietorship, partnership, private limited, limited company)	
3	Name and Address of the directors proprietor /partners	
4	Contact number in case of emergency	
5	Details of registration with statutory authorities like PF and ESIC, etc (attach copies)	
6	(a) Service tax number/ Certificate	
	(b) PAN number	
7	Details of three prominent organizations served during the last three years with contact number of concerned officer	
8	Any other information	

Copies of relevant documents are to be enclosed in support of above information.

ANNEXURE – III

PROFORMA FOR FINANCIAL BID

SNo.	Description	Rate	GST	Total
1.	Supply, installation, testing and commissioning of 82.5 KVA kirloskar make silent generator including loading, unloading and transportation. The vendor will also be responsible for laying of cable from Generator to AMF panel at Meter room.			

Signature.....

Place: Name.....

Date : Designation.....

Seal of the Company.....

UNDERTAKING REGARDING BLACKLISTING

It is hereby certified that, I/we _____ are not blacklisted by Govt. of India & its undertaking as on date. The Firm will immediately inform to Client in case of any change in the situation any time here in after.

Place: _____
Date:__/___/___

Signature of Authorized Signatory
Name:_____
Designation_____
Seal: