



தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்

சென்னை -32.

ஒப்பந்தப்புள்ளி அறிவிப்பு எண்:2/2019

மூடி முத்திரையிடப்பட்ட ஒப்பந்தப்புள்ளிகள் (இரண்டு உறைகள் முறைப்படி) கீழ்க்கண்ட ஆய்வு அறிக்கை தயாரிப்பதற்காக புகழ் பெற்ற நிறுவனம் / தொழில்நுட்ப ஆலோசனை நிறுவனம் அவர்களிடமிருந்து வரவேற்கப்படுகின்றன.

தமிழ்நாட்டில் மருத்துவக் கழிவு உற்பத்தி குறித்து ஆய்வு செய்து அறிக்கை அளித்தல் – தோராய மதிப்பு – ரூ. 25 லட்சங்கள்.

ஒப்பந்தப்புள்ளி படிவங்களை அதற்கான கட்டணம் செலுத்தி நேரடியாக உறுப்பினர் செயலர், தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம், எண் 76, மவுண்ட் சாலை, கிண்டி, சென்னை 32, அவர்களின் அலுவலகத்திலிருந்து 11/02/2019, மு.ப.10 மணிமுதல் பெற்றுக்கொள்ளலாம். மேலும் ஒப்பந்தப்புள்ளி படிவத்தை www.tenders.tn.gov.in இணையதளத்தில் பதிவிறக்கம் செய்துகொள்ளலாம். ஆனால் ஒப்பந்தப்புள்ளியை சமர்ப்பிக்கும்போது அதற்கான கட்டணத்தையும் சேர்த்து சமர்ப்பிக்க வேண்டும்.

ஒப்பந்தப்புள்ளி பெறப்படும் கடைசி நாள்: 27.02.2019 பி.ப. 1.00 மணி

ஒப்பந்தப்புள்ளி திறக்கும் நாள்: 27.02.2019 பி.ப. 3.00 மணி

எவ்வித காரணமும் கூறாமல் எந்தவொரு ஒப்பந்தப்புள்ளி அல்லது அனைத்து ஒப்பந்தப்புள்ளிகளையும் நிராகரிக்க அல்லது ஒப்பந்தப்புள்ளி பெறும் கடைசி தேதியை ஒத்திவைக்க அல்லது ஒப்பந்தப்புள்ளி திறப்பு இடம் மற்றும் தேதியை மாற்ற தலைவர், தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம் அவர்களுக்கு முழு உரிமை உண்டு.

தலைவர்
தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
சென்னை-32.



TAMIL NADU POLLUTION CONTROL BOARD

Chennai – 32.

Tender Notice No: 2/2019

Sealed tender under two cover system are invited from reputed institutions / technical consultants for

Inventorization of Biomedical Waste in the State of Tamil Nadu

Total cost of Tender value: Rs. 25 Lakhs.

The tender schedule can be obtained directly from the O/o. the Member Secretary, TNPC Board, 76, Mount Salai, Guindy, Chennai -32 on payment from 11.02.2019, 10 A.M. onwards. The tender documents can also be downloaded from the web site www.tenders.tn.gov.in. The cost of the documents shall be paid separately while submitting the tender.

Last date of receipt of tender: 27.02.2019, 1.00 PM

Last date of opening of tender: 27.02.2019, 3.00 PM

The undersigned reserves the right to reject any or all the tenders and/ or postpone the last date of the receipt and/ or the date of opening of the tenders or venue of the opening of the tenders without assigning any reasons thereof.

Chairman
Tamil Nadu Pollution Control Board
Chennai – 32.

(To be enclosed in Cover-A)

TENDER SCHEDULE

TENDER NO: 2/2019

INVITATION OF BIDS FOR INVENTORIZATION OF BIOMEDICAL WASTE IN STATE OF TAMIL NADU

SECTION – I

INVITATION FOR BIDS

1. Sealed Tenders will be received till **1.00 P.M. on 27/02/2019** by the **Chairman**, or any other official authorized by the Chairman, Tamil Nadu Pollution Control Board, Chennai for **Inventorization of Biomedical Waste in State of TamilNadu**, as per the technical specifications in Annexure-A.
2. Interested eligible bidders may obtain further information from the office of the Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32.
3. The bidder should be the reputed institution / technical consultant who have carried out a similar study in India which should be in satisfactory of the client with no adverse report as on date of bid opening.
4. The tender documents have been published in the website **www.tenders.tn.gov.in**. They can be downloaded. A complete set of bidding documents may also be purchased by any interested eligible bidder on submission of a written application to the above office along with a **Demand Draft drawn in favour of "TamilNadu Pollution Control Board, Chennai,"** obtained from any one of the Nationalised Banks towards the cost of the tender document.
5. Each tender schedule should be used for quoting one method of inventorisation study only. If the tenderer is willing to quote for more than one method of study, separate tender schedule should be obtained for each method and quoted in separate covers following the tender procedures laid down in the tender schedule.
6. The bidding document may be obtained from the office of the Member Secretary, TamilNadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32 during office hours from **10.00 A.M. to 3.45 P.M.** on all working days either in person or by post.

a)	Cost of bidding document To obtain by post	Rs.1,100/-(inclusive of postage charges of Rs.100/-).
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	(Non-refundable)	
b)	Date of commencement of sale of bidding document publishing in the website:	11/02/2019
c)	Last date for sale of bidding document	27/02/2019 up to 12.00 Noon
d)	Last date and time for receipt of bids	27/02/2019 up to 01.00 P.M.
e)	Date and Time of opening of bids	
	Cover – A (Technical Bid)	27/02/2019 up to 03.00 P.M.
	Cover – B (Price Bid)	Date and time for Price Bid will be intimated separately, if the cover 'A' is found Technically responsive and acceptable by the Tender Scrutiny Committee.
f)	Place of opening of bids	Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy Chennai-32
g)	Address for communication	All sealed tenders should be addressed to the Chairman, TNPCB, Chennai-32 and deposited in the office of Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32 (or) sent by post to the Member Secretary, TNPC Board, 76, Mount Salai, Guindy, Chennai-32.

7. All bids must be accompanied by EMD as specified in the bid documents and must be delivered to the above office at the date and time indicated above.
8. Bid will be opened in the presence of the bidders or their authorized representatives who are willing to attend on the specified date and time mentioned above.

SECTION – II

CONDITIONS OF TENDER

FOR INVENTORIZATION OF BIOMEDICAL WASTE IN

THE STATE OF TAMIL NADU

TAMILNADU POLLUTION CONTROL BOARD

SECTION – II

CONDITIONS OF TENDER FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU

- 1** Sealed tenders are invited by the **Chairman**, Tamil Nadu Pollution Control Board, Chennai for **Inventorization of Biomedical Waste in the state of Tamil Nadu**
- 2** The reputed Institution / Technical Consultant should only quote. Subletting and assigning of contracts to any other firm/ person is prohibited except with the prior permission of the **Chairman**, Tamil Nadu Pollution Control Board, Chennai-32 or an officer authorized on behalf of the Chairman.
- 3** **Tender should be enclosed in a sealed envelope superscribed with tender number, the name of the item for which quoted and the due date of the tender and sent to the Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32 so as to reach on or before 1.00 P.M. on 27/02/2019.** The tender (Covers A & B) received without superscription as above and received late will be rejected.
- 4** (a) Tender will not be accepted, if GST NUMBER of Institution/Technical Consultant is not indicated in the offer.

(b) Telegraphic, Telex or Fax or open letter offers will not be accepted.

5.1 Technical Bid in COVER – A

The following documents and certificates should be enclosed in Cover-A along with the Technical bid.

a	Check List – A : Check List “ A ” along with details called for therein.
b	Earnest Money Deposit and cost of tender document
c	Background of the firm

d	Experience of the firm (not less than 3 three years)
e	Details of similar projects handled
f	Qualification and experience of the key experts
g	Documentary evidence for the constitution of the firm with details of the name address, telephone number, fax No. e- mail address of the firm.
h	Authorization for a senior responsible Officer of the company to transact business.
i	Declaration Form in Annexure-I
j	List of Organizations for whom similar projects have been done by the firm with documentary evidences.
k	The tender schedule containing pages 1 to duly signed by the tenderer
l	Copy of Audited Annual Accounts for Last 3 years.

The above documents should be submitted in “ **Cover-A**” addressed to the Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032 and superscribed as **TECHNICAL BID FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU. TENDER NO.2/2019 DUE DATE ON 27/02/2019 1.00 PM.**

5.2 .The Tenderer shall explain by making PPT presentation of their proposed plan of study for Biomedical waste inventorization as quoted for, on the date that will be intimated separately, at their expenses. The Tenderers complying the technical specifications prescribed by the Board only are eligible for price bid opening.

5.3. Price Bid in COVER - B

The following documents should be enclosed along with the PRICE BID IN COVER-B.

a. Checklist- B

b. Annexure III of the tender duly filled giving the rates breakup details of the cost

of each item quoted.

- c. Annexure IV Special conditions of the tender duly signed by the tenders.

NOTE:

- 1) The price for items tendered should be in Rupees and should include all taxes and for free delivery to the places noted in the schedule. If any taxes are chargeable extra, the rate of taxes should be specified. Declaration form, if any, required should be specifically mentioned with time limit for furnishing such declaration.
- 2) Rates should not be altered. Quotations shall always be both in figures and words. In case of difference between the price in figures and words, lower of the two shall be considered.
- 3) The prices should be firm and should not be subject to any variation clauses.
- 4) To convert tender prices in INR for comparison the exchange rate (selling rate) on the date of opening of the Price bid in Cover 'B' will be taken.
- 5) If Price quoted by 2 or more tenderers remain same, they will be asked to provide their best and final offer of the financial bid in a sealed cover to adjudge the lowest tenderer. If still the price remains the same the lowest tenderer will be identified by draw of lot among them, which shall be conducted with prior notice, in the presence of the tied tenderers or their representatives who choose to be present.

The “**Cover B**” should also be addressed to the Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032 and super scribed as “**PRICE BID FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU. “Tender No 2/2019 Due date on 27/02/2019 at 1.00 P.M.**

- 5.4. Both **Covers A & B** should reach this office on or before **1.00 P.M on 27/02/2019.**

- 5.5. **Technical Bid in Cover-A** will be opened at Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 32 **at 3.00 P.M on 27/02/2019,** in the presence of the tenderers/ or their authorized representative of the companies who choose to be present. **Price Bid in Cover B** of those

companies which satisfy the tender conditions and technical specifications of the Board will alone be opened at a later date. The date of opening of price bid will be intimated separately.

- 5.6 Each page of the tender should be authorized by the tenderer.
6. The tenderer shall submit check list 'A' in cover A and Check list – B in Cover B with page numbers of the document enclosed.
7. It shall be the responsibility of the tenderer for any shortages/damages at the time of receipt of the tender.
8. All columns of the tender form should be duly, properly and exhaustively filled in. The signature on the quotations shall be deemed to be of the authorized signatory. The words 'NOT QUOTED" should be written against any or all the items in the schedule for which a Tenderer does not wish to tender, conditional offers and counter offers are liable to be ignored and/or rejected. All the pages shall be sequentially numbered and the page number of the relevant document should be mentioned in the checklist A&B.
9. Corrections in the Tender shall be authenticated by the Tenderer.

9.1 Clarification of Bidding Documents

- (1) If a prospective Bidder has any doubt as to the meaning of any part of the Bidding Documents he may notify the Tamil Nadu Pollution Control Board for supplementary information and explanation in writing in the format given in attachment 2 at the following address at least seven (7) days prior to the date set for pre-bid conference.

**Member Secretary,
Tamil Nadu Pollution Control Board,
No.76, Mount Salai, Gunidy,
Chennai – 32.**

- (2) Pre- Bid Conference

The bidder or his authorized representative is invited to attend the pre-bid conference and the date and time of pre bid conference will be held on **20/02/2019** at **3.30 P.M.** During the meeting the following subjects may be discussed.

- a) The purpose of the conference will be to clarify any issues regarding the Bidding Document.
- b) The bidder is required to submit questions in writing to reach the Member Secretary not later than seven days prior to the pre-bid conference.
- c) Record notes of conference including the text of the questions raised and responses given will be transmitted without delay to prospective bidders who have purchased the Bidding Documents. Any modification of the Bidding Document which may become necessary as a result of the pre-bid conference shall be made by the Officer authorized by the TNPC Board exclusively through an addendum to the **bidding documents and not through the record notes of the pre-bid conference.**
- d) Non-attendance of the pre-bid conference will not be a cause for disqualification of a bidder.
- e) The bidder shall depute maximum two authorized persons to take part in pre-bid conference.
- f) The bidder is not expected to raise any additional query after pre-bid conference and the TNPC Board is not obliged to reply any such queries.
- g) The pre-bid conference shall be open to those intending bidders who have purchased downloaded the Bid Documents.

9.2 Amendment of Bidding Documents

- 1) At any time prior to the deadline for submission of the Bid, the Board, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding Documents by amendment.
- 2) All prospective Bidders who have received the Bidding Documents will be notified of the amendment in writing at the address contained in their letter of request for issue of bidding documents and will be binding on them. The amendments will also be published in the website www.tenders.tn.gov.in It is the responsibility of the tenderers to notice any subsequent amendment issued in this regard. The TNPC Board will bear no responsibility or liability arising out of non-receipt of the same in time or otherwise.

- 3) In order to allow prospective Bidders reasonable time in which to take amendment into account in preparing their Bids, the Board, at its discretion may extend the deadline for submission of the Bid.
10. **DELIVERY:** The study Report should be strictly made as per completion schedule issued with the work order, failing which Tamil Nadu Pollution Control Board reserves the right to cancel or modify orders if it is seen that the progress of the Institution / Consultancy firm are not satisfactory.
 11. The Chairman, Tamil Nadu Pollution Control Board, reserves the right of accepting or rejecting all or any of the tenders without assigning any reasons thereof for the same and or to split up the tender as it may deem fit and/or also to finalize the tender after negotiations and also increase or decrease the tendered quantity. Repeat orders will also be placed on them after watching the performance if considered necessary.
 12. The tenderers must state, while sending their tenders, that they understand and accept this tender enquiry conditions and without such acceptance, the tender will not be considered.
 13. The scope of work for the study indicated in the schedule is only approximate and will not be, in any manner, whatsoever, binding on Tamil Nadu Pollution Control Board.
 14. The study report not conforming to scope of the work assigned and found to be defective or partially conducted or incomplete will be returned by the Board. The revised report in full shape should be made within a reasonable time on receipt of rejected report.
 15. The conditions mentioned herein will form part and parcel of the agreement.
 16. The tender schedule should be filled in without any omission and submitted or otherwise the offer will be liable for rejection.
 17. The lowest tenderer should be prepared to come for a negotiation in this office at a short notice if called for by the Board.
 18. The institution / Consultancy firm should clearly understand that time is the essence of the contract and no extension of time for the completion of the study will be entertained, under any circumstances. Therefore, the delivery of the final

report as specified in the work order should be made within the time limit prescribed. Where the tenderer submits the study report beyond the delivery period, specified in the Work Order, the Board will have no obligation to accept the report. If accepted, Board has the right to recover pre-estimated liquidated damages at the rate of 10% p.a. of the value of goods delayed for each day to the delay thereof, without prejudice to any other relief or compensation due to the purchase order or under any other conditions of the contract.

19. All disputes are subjected to the jurisdiction of court in Chennai City only.
20. Tamil Nadu Pollution Control Board will not accept any responsibility for any postal delay involved in the transmission and receipt of tender documents.
21. It is also requested to furnish whether any branches in Chennai City and other places in Tamil Nadu and India.

EARNEST MONEY DEPOSIT: Each tender must be accompanied by a deposit amount of **Rs. 25,000 (Rupees Twenty Five Thousand only)** as Earnest Money Deposit. The Earnest Money Deposit must be furnished in the form of Demand Draft drawn in favour of the “Tamil Nadu Pollution Control Board, Chennai” and the same should be sent along with the tender in Cover-A. **EMD shall not be accepted in the form of cash /Postal orders/Foreign Cheques/Drafts Tenders not accompanied by the Earnest Money Deposit will be rejected**. Earnest Money Deposit will be returned to unsuccessful tenderers after finalisation of the tender. On no account the security deposit of a previous contract can be taken as an authority for the tender or a tender accepted without the Earnest Money Deposit. It is important that all Earnest Money Deposits are made by way of Demand Draft in favour of the “TamilNadu Pollution Control Board, Chennai”. No exemption will be permitted. (If exemption is requested for the payment of EMD and SD in case of NSIC/SSI units, a performance security deposit of 5% will be retained by the Board and will be returned after one year from the date of submission of final report.)

22. **SECURITY DEPOSIT:**

Security Deposit equivalent to 5% of the value of the work order should be furnished in the form of Demand Draft drawn in favour of Tamil Nadu Pollution Control Board, Chennai, within 7 days from the date of receipt of the work order.

Security deposit in any other form will not be accepted.

23. In the case of successful tenderer, the Earnest Money Deposit may, at the discretion of Chairman, Tamil Nadu Pollution Control Board, Chennai be adjusted towards the Security Deposit payable by him and the balance to be paid by the tenderer so as to form 5% of the value of supply order as Security Deposit, will be intimated.

24. AGREEMENT:

The successful tenderer shall execute an Agreement on a 20/- Rupee non-judicial stamp paper with the Chairman, Tamil Nadu Pollution Control Board, Chennai within 15 days from the date of the receipt of the supply order. The specimen form of the agreement will be supplied by Tamil Nadu Pollution Control Board.

25. The Security Deposit remitted by the successful tenderer will be returned only after completion of complete fulfillment of the tender to the entire satisfaction of the Chairman, Tamil Nadu Pollution Control Board.

26. The Declaration Form in Annexure-I must be signed by the tenderer and must be enclosed along with the tender. Tenders received without the declaration form shall not be considered.

27. The acceptance / non acceptance of tender shall be communicated to the tenderers in writing.

28. PENALTY CLAUSES

If the successful tenderer fails to execute the said Agreement and/or fails to remit the required security deposit within the time specified or withdraws his tender after the intimation of the acceptance of his tender or owing to any other reasons, he is unable to undertake the contract, his contract will be cancelled and the Earnest Money Deposit made by him along with his tender shall stand forfeited to the Tamil Nadu Pollution Control Board and he will also be liable for all damages sustained by Chairman, Tamil Nadu Pollution Control Board by reasons of such breach including the liability to pay any differences between the prices accepted by him and those ultimately paid for the services concerned. The damages assessed by the Chairman, Tamil Nadu Pollution Control Board will be final in this matter.

29. **TRAINING**

Sufficient training at free of cost to be provided to two Engineers of Tamil Nadu Pollution Control Board about the method adopted for Biomedical Waste Inventorization.

SECTION – III
TECHNICAL BID TO BE ENCLOSED IN COVER - A

Annexure – A

TAMIL NADU POLLUTION CONTROL BOARD

TECHNICAL SPECIFICATION FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU

Project Name: Inventorization of Biomedical Waste in the State of Tamil Nadu

Summary of Proposal

It is proposed to prepare an Inventory of Bio Medical Waste & related components in all the Districts of Tamilnadu state. The overall aim of this initiative is to assess the generators, quantity and present practices for handling of Bio Medical Waste in state.

Introduction

Health Care Facilities is the world's oldest, needest and fastest growing industry. Rapid growth, combined with rapid urbanization in the field of community has resulted in generation of Bio Medical Waste increase in trend day by day. Thus waste stream comprising huge amount of Bio Medical Waste having high risk oriented with respect to public health. Studies conducted in many parts of the World reveals that the quantity of Bio Medical waste is reaching to alarming proportions.

Despite of enactment of law for handling Bio Medical Waste, this particular waste is being disposed off unauthorized, in absence of appropriate inventory of Bio Medical Waste in most of the cities. In Tamil Nadu also an effective inventory comprising the details of Bio Medical Waste and related components are yet to be increased to manage & handle Bio Medical Waste in eco-friendly manner and to combat the problem associated this waste.

Bio Medical Waste and associated problems:

The Ministry of Environment, Forest and Climate Change vide G.S.R 343(E) dated 28th March 2016 has notified 'Bio- Medical Waste (Management and Handling) Rules. As per the rules, Bio Medical Waste means, any waste, which is generated during the diagnosis, treatment or immunization of human beings or animals or research activities pertaining thereto or in the production or testing of biological or in health camps, including the categories mentioned in Schedule I appended to these rules.

Broadly, Biomedical waste is a waste containing high risk oriented with respect to the health of the general public and essentially to be collected, transported, treated and finally disposed in accordance with the Biomedical Waste Management Rules, 2016.

Need for study

Waste from Health Care Facilities Is being stored, transported, treated and finally disposed in a manner, which may be detrimental to environment. Tamil Nadu state ranks among top five (third place) states generating biomedical waste in India. Chennai is a major place for getting best treatment for health related issues. The Government of India has brought Biomedical Waste Management Rules, 2016 with the following objectives:

- Proper collection of Biomedical waste.
- Transportation of biomedical waste generated to the treatment facility.
- Ensure environmentally sound disposal of residual waste obtained from the treatment of Biomedical waste.

In the light of above, there is an urgent need to prepare an inventory of biomedical waste generated in the State so that an action plan for Biomedical Waste Management can be formulated and the legislations framed in this context may be implemented effectively.

Accordingly, a biomedical waste assessment study has been planned by Tamil Nadu Pollution Control Board for the entire State. The items to be covered in this assessment includes hospital, nursing home, clinic, dispensary, veterinary institution, animal house, pathological laboratory, blood bank, health care facility and clinical establishment, irrespective of their system of medicine and by whatever name they are called as mentioned in Biomedical Waste Management Rules, 2016.

Activity

Objective of the study

The objective of the Biomedical waste Assessment is to identify and quantify the biomedical waste generation, transportation, treatment and for final disposal in the study area by adopting uniform approach and methodology. The main objectives of this study are as follows:

- To assess identify and quantify the biomedical waste generation

- To examine the existing CBMWTFs.
- To study the problems/risks posed by the CBMWTFs and HCFs for effective/ proper management of biomedical waste.
- To estimate the existing and future quantity of biomedical in the study area ie., entire state of Tamilnadu.
- To evaluate the capacities/ capabilities of existing CBMWTFs and infrastructure for transport, treatment and disposal of biomedical waste.
- To analyze the environmental and social sustainability of present system.
- Preparation of directory of the stakeholders (HCFs & CBMWTFs).
- Conduct Sensitizing workshops in major cities.

Tasks to be performed

A very comprehensive approach has been proposed to carry out this biomedical waste assessment. The fundamental approach can be summarized in following three phases.

Phase 1: Mobilization and work plan

Phase 2: Data Collection/ Field Work

Phase 3: Report findings

Scope of Work

In order to execute this assignment, it is essential to establish the biomedical waste chain linking different stakeholders (HCFs) to understand the route with economics and associated environmental impacts. The study shall identify and describe the following:

- The stakeholders (HCFs & CBMWTFs)
- Their respective geographical distribution in the study area and
- BMW generation (Existing stock & Present generation), Mode of transportation, treatment and disposal cycle

The study should include the identification of stakeholders, classification of organization as organized/unorganized sector, further their geographical location should be determined in terms of their operating base coverage.

Some of the major stakeholders whom this study should include are:

- Hospitals, Nursing Homes, Clinics, Dispensaries, Veterinary Institutions, Animal Houses, Pathological Laboratories, Blood Banks, Ayush Hospitals, Clinical Establishments, Research or Educational Institutions, Health Camps, Medical or Surgical Camps, Vaccination Camps, Blood Donation Camps, First Aid Rooms of Schools, Forensic Laboratories and Research Labs
- Common Biomedical Waste Treatment Facilities

The study should also aim at establishing BMW chain linking using conceptual input output analysis. This idea is based on “Biomedical material flows” on its way its disintegration and processing in numerous steps until it rejoins the raw streams or ends in a final disposal.

Inventorization

As per Schedule I of the BMWM Rules, 2016, Human Anatomical Waste, Animal Waste, Microbiology & Biotechnology waste, waste sharps, Discarded Medicines and Cytotoxic drugs, Solid Waste, Soiled Waste, Liquid Waste, Incineration Ash and Chemical Waste are required to be segregated as per colour code (Yellow, Red, White- translucent, Blue). BMW is potentially hazardous to environment and human health, if not handled in an environmentally sound manner.

In order to propagate the harmful effects of biomedical waste, TNPCB has decided to conduct inventorization of BMW generators in Tamilnadu State and prepare comprehensive status report consisting of digital database and software based analysis on “Inventorization **of Occupiers in Tamilnadu State**”.

Analysis of existing CBMWTFs & quantification of BMW:

This will include description & documentation of each steps involved in generation, transportation, treatment and final disposal of BMW and the location details. Carry out photo documentation and geographical setting of each step. Estimate the quantity of BMW generated, transported, treated and disposed at each step (Autoclavable & Incinerable waste). Estimate the quantity of BMW for a particular year based on market projections & obsolescence rate.

Study area and duration of Study:

The study area shall be the entire state of Tamil Nadu. This study would be carried out in the time frame of six months starting from the date of issue of work order.

Outputs:

The following outputs to be submitted to TNPCB by end of six month on completion of the work:

1. Final reports on all BMW types & quantitative database of the components including various maps/graphics/pictures- 3 sets (hard copy and digital data).
2. A report on the existing BMW management system in these areas.
3. A directory containing names & contact details of HCFs & CBMWTFs in the State.
4. Recommendations on suggested improvements.

The quality of the output must meet the requirements of CPCB guidelines, which will be explained to the coordinating/executing officer from the executing agencies from the time to time. The outputs in draft form should be presented before the coordinator and may be submitted in advance to seek acceptance by TNPCB.

Time Frame:

The project shall be completed in six months

Completion of survey & Inventorization by zone wise covering all the 32 Districts in the state of Tamil Nadu	
Phase-I – Tirunelveli Zone	Phase-I – End of 1 st month
Phase-II – Trichy & Madurai Zones	Phase-II – End of 2 nd month
Phase-III – Salem, Coimbatore Zones	Phase-III - End of 4 th month
Phase-IV - Chennai & Vellore Zones	Phase-IV – End of 5 th month
Draft report preparation and submission to TNPCB	Middle of 6 th month
Final report submission	End of 6 th month.

Budget:

Funds not exceeding Rs 25 lakhs shall be provided by the Tamil Nadu Pollution Control Board to complete the study. Release of the funds shall be made in 05 stages after ensuring satisfactory progress in the project.

Other Conditions

- i. Presentation should be made at TNPCB, Chennai on the progress of work periodically and after completion of the work.
- ii. No expenses other than those in the sanctioned budget for traveling, collection of data, analysis of data and any other expenses will be paid by this Board.
- iii. Separate accounts should be maintained for the expenditure incurred. Expenditure details should be submitted voucher-wise in the format as prescribed quarterly by the 5th of the following month. The audited expenditure details should be submitted by the end of 6th month.
- iv. The physical and financial progress of the project should be submitted to HO, TNPCB monthly by the 5th of the following month.
- v. During study, the concerned Nodal officers of TNPCB should be apprised time to time.

Apart from above, the other term and conditions may be incorporated as and when needed during the execution of the study.

(To be enclosed along with technical bid in Cover - A)

Check List – A (Technical bid)

Sl. No.		Page No.	YES	NO
1	Earnest Money Deposit (Rs. 25,000/-).			
2	Background of the firm			
3	Experience of the firm			
4	Details of similar projects handled			
5	Qualification and experience of the key experts			
6	List of Organizations for whom similar projects have been done by the firm with documentary evidences			
7	Declaration Form In Annexure-I			
8	Technical specifications of the item quoted in compliance with TNPCB specifications in Annexure –II.			
9	List of address of branch Offices in TamilNadu/other States in India.			
10	The original tender schedule duly signed by the tenderer at the end of each page.			
11	The Power of Attorney authorizing the signatory of the Bid to commit the Bidder.			
12	Attachments in support of meeting qualifying requirements.			
13.	Pre-requisites for carrying out the study if any.			

(To be enclosed in Cover - A)

ANNEXURE – I

DECLARATION FORM

I / We

.....

having our office at

.....

.....

Declare that I / We have carefully read all the conditions of the tender floated **Inventorization of Biomedical Waste in the State of Tamil Nadu** and abide by all the conditions set forth therein.

Place:

Signature with Seal

Date :

Address:

ANNEXURE - II

TAMIL NADU POLLUTION CONTROL BOARD

TECHNICAL SPECIFICATION FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU

Sl.No.	Specifications	Requirement	BIDDER'S RESPONSE (Bidder shall indicate "complied" or "Non Complied" as applicable in each row. In case of "Non Complied", detail shall be mentioned)
1	Objective of the Study	<p>The main objectives of this study are as follows:</p> <ul style="list-style-type: none">• To assess identify and quantify the biomedical waste generation• To examine the existing CBMWTFs.• To study the problems/risks posed by the CBMWTFs and HCFs for effective/ proper management of biomedical waste.• To estimate the existing and future quantity of biomedical in the study area ie., entire state of Tamilnadu.• To evaluate the capacities/capabilities of	

		<p>existing CBMWTFs and infrastructure for transport, treatment and disposal of biomedical waste.</p> <ul style="list-style-type: none"> • To analyze the environmental and social sustainability of present system. • Preparation of directory of the stakeholders (HCFs & CBMWTFs). • Conduct Sensitizing workshops in major cities. 	
2	Tasks to be performed	<p>Phase 1: Mobilization and work plan Phase 2: Data Collection/ Field Work Phase 3: Report findings</p>	
3	Scope of the work	<p>The study shall identify and describe the following:</p> <ul style="list-style-type: none"> • The stakeholders (HCFs & CBMWTFs) • Their respective geographical distribution in the study area and • BMW generation (Existing stock available & Present generation), Mode of transportation, treatment and disposal cycle <p>Some of the major stakeholders whom this study should include are:</p> <ul style="list-style-type: none"> ➤ Hospitals, Nursing Homes, Clinics, Dispensaries, Veterinary Institutions, Animal Houses, 	

		<p>Pathological Laboratories, Blood Banks, Ayush Hospitals, Clinical Establishments, Research or Educational Institutions, Health Camps, Medical or Surgical Camps, Vaccination Camps, Blood Donation Camps, First Aid Rooms of Schools, Forensic Laboratories and Research Labs</p> <p>➤ Common Biomedical Waste Treatment Facilities</p>	
4	Inventorization	<p>As per Schedule I of the BMWM Rules, 2016, Human Anatomical Waste, Animal Waste, Microbiology & Biotechnology waste , waste sharps, Discarded Medicines and Cytotoxic drugs, Solid Waste, Soiled Waste, Liquid Waste, Incineration Ash and Chemical Waste are required to be segregated as per colour code (Yellow, Red, White- translucent, Blue). BMW is potentially hazardous to environment and human health, if not handled in an environmentally sound manner.</p> <p>In order to propagate the harmful effects of biomedical waste, TNPCB has decided to conduct inventorization of BMW generators in Tamilnadu State and prepare comprehensive status report consisting of digital database and software based analysis on</p>	

		“Inventorization of Occupiers in Tamilnadu State”.	
5	Analysis of existing CBMWTFs & quantification of BMW	This will include description & documentation of each steps involved in generation, transportation, treatment and final disposal of BMW and the location details. Carry out photo documentation and geographical setting of each step. Estimate the quantity of generated, transported, treated and disposed of BMW at each step (Autoclavable & Incinerable waste). Estimate the quantity of BMW for a particular year based on market projections & obsolescence rate.	
6	Study area and duration of Study	The study area shall be the entire state of Tamil Nadu. This study would be carried out in the time frame of six months starting from the date of issue of work order.	
7	Outputs	The following outputs to be submitted to TNPCB by end of sixth month on completion of the work: <ol style="list-style-type: none"> 1. Final reports on all BMW types & quantitative database of the components including various maps/graphics/pictures- 3 sets (hard copy and digital data). 2. A report on the existing BMW management system in these areas. 3. A directory containing names 	

		<p>& contact details of HCFs & CBMWTFs in the State.</p> <p>4. Recommendations on suggested improvements.</p>															
8	Time Frame	<p>The project shall be completed in six months</p> <table border="1"> <tr> <td>Completion of survey & Inventorization by zone wise covering all the 32 Districts in the state of Tamil Nadu</td> <td>Phase-I – End of 1st month</td> </tr> <tr> <td>Phase-I – Tirunelveli Zone</td> <td>Phase-II – End of 2nd month</td> </tr> <tr> <td>Phase-II – Trichy & Madurai Zones</td> <td>Phase-III - End of 4th month</td> </tr> <tr> <td>Phase-III – Salem, Coimbatore Zones</td> <td>Phase-IV – End of 5th month</td> </tr> <tr> <td>Phase-IV - Chennai & Vellore Zones</td> <td></td> </tr> <tr> <td>Draft report preparation and submission to TNPCB</td> <td>Middle of 6th month</td> </tr> <tr> <td>Final report submission</td> <td>End of 6th month.</td> </tr> </table>	Completion of survey & Inventorization by zone wise covering all the 32 Districts in the state of Tamil Nadu	Phase-I – End of 1 st month	Phase-I – Tirunelveli Zone	Phase-II – End of 2 nd month	Phase-II – Trichy & Madurai Zones	Phase-III - End of 4 th month	Phase-III – Salem, Coimbatore Zones	Phase-IV – End of 5 th month	Phase-IV - Chennai & Vellore Zones		Draft report preparation and submission to TNPCB	Middle of 6 th month	Final report submission	End of 6 th month.	
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Phase-III – Salem, Coimbatore Zones	Phase-IV – End of 5 th month																
Phase-IV - Chennai & Vellore Zones																	
Draft report preparation and submission to TNPCB	Middle of 6 th month																
Final report submission	End of 6 th month.																

Attachment 1

**PROFORMA FOR PERFORMANCE STATEMENT FOR THE FIRM
(for a period of last five years)**

Bid No. _____ Name of Project _____ Date of opening _____ Time _____

Name of the Firm _____

Order placed by (full address of Client Organization)	Order No. & Date	Name of Project	Duration of the project	Value of the project	Date of commissioning and submitting the report	Has the client organization satisfied with the report? (Attach minimum two certificates from the client organization)
1	2	3	4	5	6	7

Signature of the Authorized Representative

Name of the person:

Position:

<Letterhead of the Bidder>

FORM OF QUESTIONNAIRE

**BIDDING DOCUMENTS FOR INVENTORIZATION OF BIOMEDICAL WASTE IN
THE STATE OF TAMIL NADU**

Date:

To :

**Tamil Nadu Pollution Control Board,
76, Mount Salai,
Guindy,
Chennai – 600 032**

From :

Name of Bidder
Address
Name of Representative
Position
Fax No.
Email id.
Signature

Question

Signature of the Authorized Representative

Name of the Person

Position

<Letterhead of the Bidder>

CERTIFICATE OF EXISTENCE OF LOCAL BRANCH OFFICE(S) IN INDIA

To

**Tamilnadu Pollution Control Board,
76, Mount Salai,
Guindy,
Chennai – 600 032.**

Subject: Certificate of Existence of Local Branch Office(s) in India

1. Name of Office (s) :
2. Address :
Tel. No. :
Fax No. :
Telex No. :
Email id. :
3. Status of Office(s) :
4. Date of Establishment of Office(s) :
5. Name & Address of Residential Representative :
6. Total Manpower :
7. Total No. of Trained Service Engineer :
8. Present No. of Offices in India
(Name the locations & address) :
9. Total Turnover in last 3 years :

Signature :

Name :

Designation :

Seal :

PRE-REQUISITES FOR CARRYING OUT THE STUDY

To

**TamilNadu Pollution Control Board,
76, Mount Salai,
Guindy,
Chennai – 600 032.**

Dear Sir,

Following are the pre-requisites for carrying out Inventorization of Biomedical Waste in the State of Tamil Nadu.

- 1.
- 2.

Signature of the Authorized Representative:

Name of the Person:

Position:

SECTION IV

ATTACHMENT FOR PRICE BID IN COVER - B

(To be enclosed in Cover - B)

Check List - B

Sl. No.		Page No.	YES	NO
1	Summary of price bid (Attachment 6)			
2	Break up for Price Bid (Attachment 7)			
3.	Schedule for inventorization of Biomedical Waste in the State of Tamil Nadu (Annexure III)			
4	Annual report and Balance sheet for the Last 2 years			

(To be enclosed in Cover - B)

Attachment 5

PROFORMA FOR FINANCIAL CAPABILITY OF BIDDER

(for a period of last three years)

Bid No. _____ Package Code _____ Date of opening _____ Time _____

Name of the Bidder _____

Year	Currency	Turnover
Annual Balance sheet for last two years may be furnished		

Note:

1. The annual turnover amount is to be supported by annual report.

Signature of the Authorized Representative:

Name of the Person:

Position:

(To be enclosed in Cover - B)

Attachment 6

SUMMARY OF PRICE BID

Description	Total Value (In Rupees)
Inventorization of Biomedical Waste in the State of Tamil Nadu	

(To be enclosed in Cover - B)

Attachment 7

BREAKUP FOR PRICE BID

Sl. No.	Description of work	Value (In Rupees)
1.		
2		
.		
.		
	Total Value	

(To be enclosed in Cover - B)

ANNEXURE - III

Price Bid

SCHEDULE FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU

Name of the Project : Inventorization of Biomedical Waste in the state of Tamil Nadu

	In Indian Rupees	In Foreign currencies (if quoted in Foreign currencies)
i) Cost		
ii) Taxes		
iii) Others		
Total Value		

Note:

1. The rates should be both in figures and words.

Place:

Signature with Seal

Date:

Address:

(To be enclosed in Cover –B)

ANNEXURE – IV

SPECIAL CONDITIONS OF TENDER FOR INVENTORIZATION OF BIOMEDICAL WASTE IN THE STATE OF TAMIL NADU

1. PAYMENT

Payment will be made in 5 stages.

On receipt Phase-I report	10% of the total value of the project awarded
On receipt Phase-II report	15% of the total value of the project awarded
On receipt Phase-III report	20% of the total value of the project awarded
On receipt Phase-IV report	30% of the total value of the project awarded
On receipt of compiled final report	25% of the total value of the project awarded - Final payment

Note: After completing each Phase, the findings shall be reported to the TNPCB in the 1st week of proceeding month for release of payment. Payment will be made within 30 days after receipt of reports in full shape.

2. TIME FRAME

The project shall be completed in six months from the date of work order issued.

Completion of survey & Inventorization by zone wise covering all the 32 Districts in the state of Tamil Nadu	
Phase-I – Tirunelveli Zone	Phase-I – End of 1 st month
Phase-II – Trichy & Madurai Zones	Phase-II – End of 2 nd month
Phase-III – Salem, Coimbatore Zones	Phase-III - End of 4 th month
Phase-IV - Chennai & Vellore Zones	Phase-IV – End of 5 th month
Draft report preparation and submission to TNPCB	Middle of 6 th month
Final report submission	End of 6 th month.

3. DELAY

Any delay in carrying out the study and submission of the final report shall be the responsibility of the firm.

4. VALIDITY

The rates quoted shall be valid for a minimum period of 180 days from the date of opening of the Tenders.

5. TRAINING

Sufficient training at free of cost to be provided to two Engineers of Tamil Nadu Pollution Control Board about the method adopted for Biomedical Waste Inventorization.

Place :
Date :

Signature with seal
Address