

**PROJECT DIRECTOR
REHAB: DHQ/THQ HOSPITALS IN SINDH
HEALTH DEPARTMENT,
GOVERNMENT OF SINDH
(SHAHEED MOHTARMA BENAZIR BHUTTO SINDH HEALTH INITIATIVE)**



BIDDING DOCUMENTS FOR PROCUREMENT OF MEDICAL EQUIPMENT (INCINERATORS) FOR THE FINANCIAL YEAR 2017-18, UNDER ADP SCHEME NO. 735 EXPANSION & IMPROVEMENT OF DHQ HOSPITALS @ MIRPURKHAS, DADU, THATTA, SANGHAR & MIRPUR MATHELO. (05 DHQs)

**Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi**

Issued to M/s. _____

Due on: 09-01-2018 AT 12:00 Noon

INDEX

1. (a) Invitation for Bids & (b) Knock Out Clauses
2. Name of Equipment, Name & Manufacturer (Annex A, B & C)
3. Terms and Conditions
4. Notification of Award / Advance Contract
5. Contract Agreement
6. Performance Security
7. Payment Term:
8. Stamp Duty
9. Undertaking
10. Certificate
11. Criteria For Evaluation Of Bids
12. Quality and Assessment Parameter
13. Bid Form And Price Schedule
14. Bid Security Form
15. Contract Form
16. Performance Security Form
17. Manufacturer's Authorization Form
18. Schedule of Requirement Specifications



Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

1(a) INVITATION FOR BIDS

Date: _____

ADP NO 735 _____

Bid Reference No.: _____

1. The Project Director, Rehabilitation of DHQ/THQ Hospitals in Sindh of (the "Employer") has received credit from the Government of Sindh towards the cost of Expansion & Improvement of DHQ Hospital @ Mirpurkhas, Dadu, Thatta, Sanghar & Mirpur Mathelo. And it is intended that part of the proceeds of the credit will be applied to eligible payments under the Contract for the Purchase of Machinery Equipment/Instrument for the financial year 2017-18 under ADP Scheme 735. Bidding is open to all eligible Bidders.
2. The Employer invites sealed bids (the Technical & Financial envelope should be separated), from eligible firms a foreign Bidder is entitled to bid only in a joint venture with a Pakistani contractor having manufacturing facility in Pakistan.
3. Bidders may obtain further information from, inspect at and acquire the Bidding Documents from the Office of the Employer, at D-62/2, Opp. Beacon House School KG II near Kausar Medicos, Block 9, Clifton Karachi.
4. A complete set of Bidding Documents may be purchased by an interested Bidder on submission of a written application to the above office and upon payment of a non-refundable fee of Rs. 2000/-.
5. All bids (Technical) must be accompanied by Earnest Money in the amount of 2% of Bid Amount in the form of Bank Guarantee, Pay Order or Demand Draft in favor of Employer, and must be delivered to D-62, Opp. Beacon House School KG II near Kausar Medicos, Block 9, Clifton Karachi, at or before 12:00 Noon, on 09-01-2018. Bids will be opened at 01:00 PM on the same day, in the presence of Bidders' representatives who choose to attend at the same address

Address:

OFFICE OF THE PROJECT DIRECTOR
REHAB: DHQ/THQ HOSPITALS IN SINDH,
D-63 OPP. BEACON HOUSE SCHOOL KG II
NEAR KAUSAR MEDICOS BLOCK-9,
CLIFTON, KARACHI.
TEL: 021-35822317 –



PROJECT DIRECTOR
Rehab: DHQ / THQ Hospitals in Sindh
Karachi

Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

1(b) CHECK LIST

The provision of this checklist is essential prerequisite along with submission of tenders.

S/No.	DETAILS	YES / NO	PAGE#/ Annex.
KNOCK OUT CLAUSES			
1	Original receipt for purchase of tender. Original receipt for purchase of tender for each alternate.		
2	The financial envelopes should be separated of each item, clearly marked the company name and quoted serial item No. and Name.		
3	Copy of Bid Security without amount in technical bid		
4	Sole agency certificates [as per annex at clause 18] or nominee of manufacturer or sole agent		
5	Copy of GST certificate		
6	Copy of NTN certificate		
7	Copy of last three years paid income tax Challan		
8	Copy of registration with chamber of commerce		
9	Copy of registration with PNRA in case of x-ray, before submission of bid.		
10	Price should not be mentioned on technical bid.		
11	Certificates regarding quality of production for conformity with International Standards (copy of certificate FDA, CE, JIS) [as per annex. C]		



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Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Signature & seal (bidder): _____

S[illegible]

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Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

6

Must be Filled:

[illegible]

Signature & seal (bidder): _____

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Government of Sindh, Karachi

Annexure “C”

Must be Filled:

[illegible]

Signature & seal (bidder): _____

Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

3. TERMS AND CONDITIONS:

- 3.1 Bid shall remain valid for 90 days from the date of Bid opening.
- 3.2 Bidders shall quote their prices either on CIF Karachi or on free Delivery at Consignee's end DHQ Hospitals Mirpurkhas, Dadu , Thatta, Sanghar & Mirpur Mathelo basis excluding custom duties, as project office shall arrange letter of exemption of custom duties.
- 3.3 Price shall be quoted in Figure & words failing which the offer will be ignored. In case of discrepancy in two the price in words shall prevail and shall be taken as final
- 3.4 Free installation along with all accessories including labor charges/Demonstration at consignee's end must be borne by the bidder.
- 3.5 03 year free service from the date of installation and undertaking regarding availability of spare parts for at least 10 years may also be confirmed by the bidder through their principle or manufacturer
- 3.6 manufacture and their Sole agent are authorized to participate in case of sole agent he must provide warranty and Guarantee, free after sales service for 3 years and availability spare parts for 10 years from manufacturer.
- 3.7 Bidders are required to submit proof of past import of quoted items from Manufacturer by submitting copy of bill of entry (custom clearance documents), bill of lading /Air way bill and etc. along with their technical bid.
- 3.8 The supplier will be bound to train nominated technical personnel to operate /repair and maintain the supplied equipment.
- 3.9 Bidders should confirm the presence of Manufacturer's/sole agent's trained service/installation engineers/technicians and also provide the detail of their working experience, Manufacture's training certificate, list of tools and test equipment, approximate area of workshop in the premises of their office and address along with the bid.
- 3.10 List of hospitals, name of department, contact numbers of the end users, in which the quoted equipment are working must be attached. Copy of previous installation report in a reputed Govt./Private Teaching Hospitals/repair certificate if any, of the similar quoted items from the end user should be attached along with the bid.
- 3.11 Evaluation of equipment will be carried out in accordance with specifications of the equipment and evaluation criteria as mentioned in the bid documents

- 9
- 3.12 The bidder shall bear the charges of clearing agent, Godown rent, DO Charges and all other charges including transportation to Consignee end excluding custom duty and tax of whatsoever, Certificate will issued by this office to clarify that the import has been made for the hospital in Question so as to avail the facility of exemption of duties / taxes as per Government Rules
- 3.13 In this tender single stage two envelopes procedure as per SPPRA 2010 amended 2013 shall be followed i.e. Technical and Financial proposal separately, i.e. single stage two envelopes procedure . The envelope must contain tender enquiry no. on the top and **TECHNICAL/FINANCIAL PROPOSAL** clearly in order to avoid any confusion. The tenders shall be submitted with all documents, drawing literature & catalogue (in equipment) in Technical proposal, with sealing wax. The name of manufacturer or supplier should be affixed on the face of envelope at the left side, moreover, financial envelope should contain financial bid for each item separately,
- 3.14 The bid must be free from erasing, cutting and over writing. In case of erasing, cutting and over writing, authorized person shall initial it and affix the firm's stamp.
- 3.15 Conditional/Optional tenders will be ignored and will not be considered entertained/accepted.
Late bid received after the closing time shall not be entertained and shall be returned un opened
- 3.16 Tender shall be accompanied by Bid Security @ 2% of the value of stores quoted by bidder in form of call deposit/pay order/demand draft/ irrevocable Bank guarantee up to 28 days after expiry of bid validity period in the name of Project Director, Rehabilitation of THQ/DHQ Hospital, in Sindh,
- 3.17 Copy of Bid Security (without amount) must be attached along with the technical bid. In case of disclosure of price or amount of bid security in the technical bid, the bid shall be rejected.
However the original bid security showing amount of bid shall be furnished with financial bid/proposal.
- 3.18 For the X-Ray Equipment, bidders must submit a valid copy of registration with PNRA (Pakistan Nuclear Regulatory Authority) Firm shall have registration with PNRA before submission of bid.
- 3.23 The original printed catalogue/technical brochure showing detail technical specification, clear photo/picture of the quoted item, Manufactures address, phone number, e-mail address and website must accompany with offer.
- 3.19 The equipment to be imported comply/certified at CE/FDA /JIS standards, Certificate shall be attached along with the technical offer.

- 10
- 3.20 If the Contractor fails to complete the supply or installation within delivery period, he shall pay to the purchaser liquidated damages at the rate of 2% per month (0.5% per week) of the Contract Price, or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed 10% of the bid amount. Once the "Maximum limit" is reached, the Purchaser shall termination of the Contract, forfeit performance security and black list the bidder for specific or indefinite period.
- 3.21 Tenderers are required to furnish a detail technical quotation on their letter head and specify the standard and optional items /accessories as required in the tender specification with price if any. Bidder should clearly mention make, model, and country of origin of the quoted items.
- 3.22 Tenders shall purchase separate tender documents and furnish purchases receipt for each alternate offer in case they want to submit alternate offer for any item. All the bids with alternate offers without separate purchase receipt (original) are supposed to be rejected.
- 3.23 No Manufacturer shall authorize their distributor/agent/any firm or person to quote the same item which manufacturer quoted it-self in any tender. Manufacturer or sole agent shall not authorized more than one supplier to quote same item in this tender, failing which offers of the manufacturer as well as other bidders shall be ignored.

4. NOTIFICATION OF AWARD/ADVANCE CONTRACT:

- 4.1 Prior to the expiration of the period of bid validity, the purchaser will notify the successful bidder in writing, delivery by hand or by register letter by cable to be confirmed that their bid has been accepted.
- 4.2 The notification of award will constitute the formation of the contract.

5. CONTRACT AGREEMENT

Subject to the fulfillment of all codal formalities, the purchaser will award the contract to the successful bidder whose bid has been determined to be qualified to perform the contract satisfactory.

6. PERFORMANCE SECURITY

The successful bidder will have to deposit with the performance security in shape of call deposit/pay order/bank guarantee at the rate of 5% of the value of contract before agreement.

7. PAYMENT TERM:

Project Director
DHO/THQ Hospitals
Health Department
Government of Sindh, Karachi

- 7.1 In case of purchase on CIF this office will establish Letter of Credit for 80% of contract value in favor of manufacturer. Remaining 20% payment will be released in equivalent to Pak Rupees of CIF amount after successful completion of delivery of equipment at consignees' end, and the difference in currency fluctuation will be borne by bidder.
- 7.2 Terms of payment for FOR(free delivery at consignee end) Part Delivery, Part Payment may be allowed if applicable.

8. Stamp Duty:

- 8.1 Stamp duty @0.3% shall be borne by the suppliers.

9. UNDERTAKING

- 9.1 That I/We agree whether our tender accepted for total, partial or enhanced quantity for all or any single item. I/We also agreed to supply and accept the said item at the rates for the supply of contracted quantity with in the stipulated period shown in the contract.
- 9.2 I/We understand and confirm the refund of cost different if the same goods is/was supplied at lower rates to any other Govt. /Semi Govt. institution in the province in the same fiscal year.
- 9.3 I/We undertake that; if any of the information submitted in accordance to this tender enquiry found incorrect our contract may be cancelled at any stage on our cost and risk.


Project Director
Regional HQ/HQ Hospitals
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Government of Sindh, Karachi

12

10. CERTIFICATE

We guarantee to supply the sores exactly in accordance with the requirement specified in the invitation to this tender.

Signature of Tenderer: _____

Name & Designation: _____

Address: _____


Project Director
Rehab: DHQTHQ Hospitals
Health Department
Government of Sindh, Karachi

11. CRITERIA FOR EVALUATION OF BIDS

Quality and the following evaluation factors/ criteria will be employed on technical proposals. The number of points allocated to each factor shall be specified in the Evaluation Report. Only bids securing minimum of 70% marks would be considered for further process.

**EVALUATION CRITERIA
(ELECTRO-MEDICAL EQUIPMENTS)
ASSESSMENT PARAMETER MARKS**

12	12. ASSESSMENT PARAMETER	Marks
12.1	Availability of technical staff of the company/firm in reference to the product	15
<p>Following two components shall be considered in ascertaining the availability / expertise of technical staff:</p> <p>A. Number of technical staff</p> <p>i) At least two technical staff members</p> <p>ii) 01 additional number for every additional technical member shall be granted with maximum up to 04</p> <p>B. Technical Staff's academic qualification</p> <p>MSC or BE. degree in (Bio-Medical/Electronic) Engineering from recognized institution shall be granted two (02) additional mark. However, B.Tech shall not be considered for additional mark.</p>		
12.2	Manufacturer's local agent capacity for technical services with reference to the product.	15
<p>1. Repair work shop facility with the diagnostic tools and test equipment as submitted along with the quotation 07</p> <p>4. Service manual and other technical documentation List 03</p> <p>5. Availability of spare parts for 10 years and accessories at workshop List 05</p>		
12.3	Financial soundness	12
<p>1. The Bank certificate or credit limit over double of estimated Cost 08</p> <p>4 additional marks shall be given to firms having more than double credit limit</p>		
12.4	Overall reputation in reference to the product (Cliental)	

10
Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karar

14

Overall reputation of the product shall be envisaged by following criteria:		
A. References/certificates provided regarding performance of the product from head of teaching hospitals. 2 each Teaching Hospital one mark each for secondary hospital.		
12.5	General overall sale turnover of the Organization	10
	A. 60% or more sales proportion of Medical Equipment (quoted items)	07
	B. 40% or more sales proportion of scientific instruments	03
12.6	International Sales and country of origin of quoted item	15
	A. Sale of product in two or more continents	10
	B. Sale of product in single continent	05
12.7	Product Certification	10
	FDA approved product	04
	CE approved product	03
	JIS	03
12.8	Exclusive Agency Certificate, Attested by Embassy, & Chamber of Commerce from Native Country of Manufacturer	08
	A. 10 years or more for each products or	08
	B. 5 years or more for each products	05
	C. 3 years or more for each products	03
12.9	Other	05
	Submission of original brochures and required certificates as per tender terms and Conditions.	05

Firms are required to fill in following performa for key staff

Availability of technical staff of the company/firm in reference to the product:

1. Total Number of Technical Staff: _____
2. No of B.Sc. degree in Bio-Medical Engineering holder: _____
3. No. of Beach/Diploma holder: _____
4. No. of M.Sc./Master degree holder: _____
5. Details of Engineers : _____

S/No.	Name of Engineer	Qualification	Experience No of years	Manufacturer's Training with name of equipment and duration

Signature: _____

Seal: _____

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Health Department
Government of Sindh, Karachi

16

Assessment Parameter: 13.1.1

Manufacturer's local agent capacity for technical services in reference to the product

Physical size and facility of workshop _____
(Please attach photograph or picture of your workshop)

Details of Test and diagnostic tools: _____
(Please attach a separate sheet describing the test and diagnostic tools):

Details of Service manual and other technical documentation: _____
(Please attach a separate sheet describing the details of Manuals and other supporting documents)

Details of spare parts and accessories available at workshop: _____
(Please attach a separate sheet mentioning the list of spare parts and accessories)

Assessment Parameter: 13.2.1

Financial soundness

Copy of Income Tax Paid Challan for last three years: _____

Copy of audited Balance sheet by a recognized audit firm: _____
OR

Copy of Bank statement for the last financial year: _____

Assessment Parameter: 13.3.1

Overall reputation in reference to the product (Cliental)

No. of references _____
(Reference will be verified)

No of Certificates, regarding performance of the product from head of the concerned institute/hospital _____

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Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Signature: _____

Seal: _____

17

Assessment Parameter: 13.4.1

Overall sale turnover of the Organization: _____

For quoted Medical Equipment: _____

For other scientific equipment: _____

Assessment Parameter: 8.6

International Sales and country of origin of quoted item

Tender Item no	Name of Quoted Equipment	Manufacturers' declaration mentioning name of continents where the equipment are sold.	Country of Origin


Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Signature: _____

Seal: _____

Assessment Parameter: 13.5.1

Quality certification of the quoted products:

Tender Item no	Name of Equipment	Make	Model	Certificate (FDA/CE(MDD)/JIS)

Assessment Parameter: 13.6.1

Details about Exclusive Rights of the product represented in Pakistan:

Tender Item no	Name of Equipment	Manufacture /Origin	Number of years for exclusive rights

Signature: _____

Seal: _____

Project Director
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Health Department
Government of Sindh, Karachi

Assessment Parameter: 13.6.1

Submission of Documents:

Original Brochure:

Tender Item no	Name of Product	Original Brochure

Copy of NTN certificate: _____

Copy of Sale Tax Certificate: _____

Copy of Professional Tax Certificate: _____

Copy of Chamber of Commerce registration Certificate: _____

Copy of PNRA registration Certificate: _____

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Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Note:

Bidders can provide details information on extra sheets by separating them with the uses of annexure.

Name: _____

Designation: _____

Signature: _____

Name of firm: _____

Stamp of firm: _____

13. BID FORM AND PRICE SCHEDULE

Date: _____
Tender No. _____

To: [Name and address of Procuring Agency]

Gentlemen and/or Ladies:

Having examined the Bidding Documents including addenda nos: [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer the supply and deliver [description of goods and services] in conformity with the said Bidding Documents for the sum of [Total Bid Amount in words and figures], or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our bid is accepted, we will obtain a guarantee of a bank in the sum of equivalent to _____ percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to abide by this bid for a period of [number] days from the date fixed for bid opening as per bid terms and condition, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent gratuity	Amount and Currency	Purpose of commission or
_____	_____	_____
_____	_____	_____

*Project Director
Rahat: DHQ/HQ Hospitals
Health Department
Government of Sindh, Karachi*

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this _____ day of, _____ 2017

Signature : _____

(In the capacity of: _____

Duly authorized to sign bid for and on behalf of. _____

14. BID SECURITY FORM

Whereas [name of bidder] (hereinafter called the Bidder") has submitted its bid dated [date of submission of bid] for the supply of [name and /or description of goods] (hereinafter called the bid").

KNOW ALL PEOPLE by these presets that we [name of bank] of [name of country], having our registered office at [address of bank] (hereinafter called "the bank"), are bound unto [name of procuring agency] (hereinafter called "The procuring agency") in the sum of for which payment well and truly to be made to said procuring agency, the bank binds itself, its successors and assigns by these presents. Sealed with the common seal of the said bank this _____ day of _____, 20_____.

The conditions of this obligation are:

1. If the bidder withdraws its bid during the period of bid validity specified by the bidder on the bid form;
Or
2. If the bidder, having been notified of the acceptance of its bid by the procuring agency during the period of bid validity:
3. Fails or refuses to execute the contract form, if required; or
4. Fails or refuses to furnish the performance security, in accordance with the instruction to bidders.

We undertake to pay to the procuring agency up to the above amount upon receipt of its first written demand, without the procuring agency having to substantiate its demand, provided that in its demand the procuring agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including twenty eight (28) days after the period of bid validity, and any demand in respect thereof should reach the bank not later than the above date.

[Signature of bank]

15. CONTRACT FORM

THIS AGREEMENT made at _____ day of 20_____ between [name of procuring agency] of [country of procuring agency] (hereinafter referred to as the "Procuring Agency") of the one Part; and [name of supplier] of [city and country of supplier] (hereinafter called the "Supplier") of the other Part

WHEREAS the Procuring Agency invited bids for certain goods and ancillary services, viz [brief description of goods and service] and has accepted the bid by the Supplier for the supply of those goods and service in the sum of [contract price in words and figures] (hereinafter called "the contract price").

Now This Contract Witnessed As Follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of this Contract hereinafter referred to :
2. The following documents shall be deemed to form and be read and construed as part of this agreement , viz :-
 - a. The Bid form and Price Schedule submitted by the Bidder,
 - b. The Schedule of Requirements;
 - c. The Technical Specifications;
 - d. The terms and Conditions of Contract
 - e. The Procuring Agency's Notification of Award;
3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of this Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the time and in the manner prescribed by this Contract.

IN WITNESS, Whereof the Parties hereto has caused this agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the _____
(For the procuring agency)

Signed, sealed, delivered by _____ the _____
(For the supplier)

Project Director
Rehab: BHQTHQ Hospitals
Health Department
Government of Sindh, Karachi

16. PERFORMANCE SECURITY FORM

To: [Name of the Procuring Agency]

Whereas [Name of Supplier] (hereinafter called "the Supplier") has undertaken in pursuance of Contract No. [Number] dated [date] to supply [description of goods] (hereinafter called "the Contract").

And whereas it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

And whereas we have agreed to give the Supplier a Guarantee:

Therefore we hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of [Amount of the Guarantee in Words and Figures] and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of [Amount of Guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

This guarantee is valid until the _____ day of _____, 20_____

Signature and Seal of the Guarantors/Bank: _____

[Name of bank or financial institution] _____

[Address] _____

[Date] _____

17. MANUFACTURER'S AUTHORIZATION FORM

To: [name of Procuring Agency]
[Tender no.]

WHEREAS [name of the Manufacturer] who are established and reputable Manufacturers of [name and/or description of the goods] having factories at [address of factory]

Do hereby authorize [name and address of Supplier/ Agent] to submit a bid, and subsequently negotiate and sign the Contract with you against IFB No. [Reference of the Invitation to Bid] for the goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation for Bids.


Project Director
Pohab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

[Signature for and on behalf of Manufacturer]

Note:

This letter of authority should be on the letter head of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its bid.

18. Schedule of Requirement

SPECIFICATIONS


Project Director
Pohab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

Schedule of Medical Equipments (Incinerators) for DHQ Hospitals

Mirpurkhas, Dadu, Sanghar, Thatta & Mirpur Mathelo

Financial Year 2017-18 Under ADP Scheme No. 735

Item No.	Item Name	QTY.	C.I.F PRICE		F.O.R PRICE	
			Unit Price	Total Price	Unit Price	Total Price
1	Supply Installation, testing and Commissioning with Civil Works for INCINERATOR on TURNKEY Basis	5				
	Supply Installation, testing and Commissioning with Civil Works for INCINERATOR on TURNKEY Basis					
	The amount of waste is to be Incinerated per hour 32 - 50 kg / hr					
	Operating Standard					
	All Incinerators shall meet the following emission and operating standards.					
	1. Combustion efficiency (C.E.) shall be at least 99.0% 2. The Combustion efficiency shall be computed as follows: C.E = (CO ₂ X 100) / (% CO ₂ + % CO) 3. Suitably designed pollution control devices such as scrubbers, filters or electrostatic precipitators, shall be installed / retrofitted with the Incinerator to achieve emission limits, if necessary.					
	Feeding:- Controlled hygienic, mechanical or automatic feeding methods have to be used which will not negatively influence the Air supply and temperature in the primary and secondary chambers of the Incinerator.					

Project Director
Rehab: DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

27

In Case of Single Chamber Incinerators: The Minimum Temperature shall not be less than 1100 C°.		
In	Case of	Double Chamber Incinerators:
Primary Combustion:- 1. The Primary Combustion chamber shall be accepted as the primary combustion zone and shall be equipped with a burner/s burning gas or low sulphur liquid fuel. 2. Primary air supply is to be controlled efficiently. The minimum combustion temperature of the primary chamber shall not be less than 800 C°.		
Secondary Combustion:- 1. The Secondary combustion chamber shall be accepted as the secondary combustion zone and shall be fitted with a burner/s burning gas or low sulphur liquid fuel. 2. Secondary Air supply is to be controlled efficiently. 3. Flame contact with all the Gases shall be achieved. 4. The residence time in the secondary chamber shall not be less than two seconds. 5. The Gas temperature as measured against the inside wall in the secondary chamber, not in the flame zone, shall not be less than 1100 C°.		
6. The oxygen content of the emitted Gases shall not be less than 11%. 7. Both the Primary and the Secondary temperatures shall be maintained until all the waste has been completely combusted.		
Chimney:- The Specifications below cover both single and double chamber Incinerators.		

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 Punjab DHQ/THQ Hospitals
 Health Department
 Government of Sindh, Karachi

28

1. The exhaust gas stack (Chimney) shall extend above the general terrain in the immediate vicinity of the plant, in order to disperse the combustion gas products adequately.
2. The Chimney shall have a minimum height of Nine (9) meters above ground level and clear the height point of the building by not less than six (6) meters for flat roofs or 03 meters for pitched roofs. The topography and height of adjacent buildings (Closer than 5 meters chimney height) shall be taken into account.
 3. If possible the chimney shall be visible to the operator from the stocking floor.
4. The dilution of air after combustion in order to achieve the air pollution control standards is not allowed.
5. The Minimum exit velocity of the emissions shall not be less than 10 meters / Second.
6. The stack shall be insulated to maintain the maximum outlet temperature.
7. The sampling platform and port for measurement of emissions shall be provided.

Temperature:-

1. The temperature shall be determined against the inside wall of the combustion chambers. Care shall be taken not to measure the burner flame temperature.
2. An audible and visible alarm shall be installed to warn the operator when the secondary temperature drops to below the required temperature.
 3. The following instruments may also be required.
 - A). A Carbon Monoxide and / or Oxygen Meter / Recorder.
 - B). A Smoke Densite Meter / Recorder.
 - C). A Gas Flow Meter / Recorder.
 - D). Any other instrument or measurement considered necessary.

Project Director
Rehab. DHQ/THQ Hospitals
Health Department
Government of Sindh, Karachi

<p>Siting:-</p> <p>1. The proposed siting requirements shall address the impact of the facility on ambient air quality, visibility, soils, vegetation and other factors that may be relevant in determining that the benefits of the proposed facility significantly outweigh the environmental and social costs imposed as a result of its location and construction.</p>	<p>2. The Incinerator shall be sited in accordance with the topography and be compatible with premises in the neighbourhood.</p>	<p>3. The proposed site shall be duly approved by the competent Authority.</p>	<p>4. The Incinerator shall be housed in a suitably ventilated enclosure.</p>	<p>5. The Incinerator shall be sited in accordance with the relevant legislation if applicable.</p>	<p>Must be CE / FDA approved Country of origin should be UK/USA/ EEC./Japan</p>	<p>Warranty period shall be of three years starting from date of supply of equipment to the Consignee End</p>	<p style="text-align: center;">Project Director Rehab: DHQ/THQ Hospitals Health Department Government of Sindh, Karachi</p>			
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Project Director

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