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**BOOK OF QUANTITIES MEDICAL HOT HEARTH
INCINERATOR AT AYUB TEACHING HOSPITAL
ABBOTTABAD**

S.No	Description	load Capacity	Qty
1	Supply, fixing, testing and commissioning of Medical hot hearth incinerator. Dully supported by catalogue, brochure etc for evaluation complete in all respect.	200 kg	1

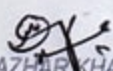
Issued to _____

Vide deposit receipt No. _____

Name/ Address of Firm: _____

Stamp _____

Call Deposit No _____


MAZHAR KHAN
Mechanical Engineer
A.T.H Abbottabad

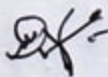
SPECIFICATION OF MEDICAL HOT HEARTH INCINERATOR.

Type of waste	Medical/pathological waste with high moisture, high density and low calorific values
Load Capacity	200 Kg
No of chamber	one combine Unit (Primary & Secondary chambers
Temperature of Primary chamber	850°C or above
Temperature of Secondary chamber	1150°C or above
Residence time	2 seconds.
Burner type	Natural Gas Burner
Feed and Ash Removal Doors	one or two
Burner Controller	Automatic
Scrubber	included-stainless steel
Operator kit	included (fire proof)

Burning Capacity/Rate.

200 kg/h

Standard Certificate. International Standard Certification from Regulatory/Professional Bodies



Key Features.

- The incinerator must be imported and certified (CE or equivalent).
- Prefabricated robust mild steel casing, seam welded and suitably stiffened/braced where necessary.
- Paint finishing- The steel structures should be completely painted with high grade paint system.
- Lightweight resilient refractory fiber insulation door, providing a tight seal and gives excellent thermal efficiency.
- Primary and secondary chamber lining should be thick at least-22mm, rated at 1430c.
- Low thermal mass roof lining with removable roof and back plate for ease of maintenance.

Primary chamber

- Fully insulated internal refractory lining, Constructed from high grade refractory brick ensuring a self-supporting interlocked arrangement.
- One fully interlocked manually operated, access door
- One waste ignition burner, temperature controlled on-off complete with internal air fans
- One hot earth combustion burner, temperature controlled on-off complete with internal air fans.
- Secondary combustion burner air fans with automatically controlled distribution to their designated area.
- Two temperature sensor mounting points

Secondary chamber

- Fully insulated internal refractory lining, Constructed from high grade refractory brick and low thermal mass insulation.
- One secondary chamber burnout burner, temperature controlled on-off, complete with internal air fans.
- Integrated combustion burner air fans with automatically controlled distribution to their designated area.
- All combustion fuel pipe work.
- All electrical requirements.
- One temperature sensor mounting point at the base of the exit flue ensuring the chamber reaches the necessary temperature.

Signature

- The incinerator should be capable of burning the following waste
 - Blood, drips
 - Human organs
 - Human tissues
 - Human limbs
 - Cancer treatment wastes
 - Pharmaceuticals
 - Surgery waste
 - Syringes/needles
 - Combustion system
 - The burner system should be fully automatic package burner type which includes the following features.
 - Flame failure controls
 - Adjustable flame patterns
 - Integrated fuel pump
 - Solenoid valves
 - Integral continuous air fan
 - Fuel sensors.

Expected Emissions

The incinerator must be factory tested for emissions. The result should be based on two second residue time within secondary chamber. The result should be as following.

Carbon dioxide	5%
Water	29%
Sulphur dioxide	6%
Nitrogen	54%
Smoke	0%
Odour	0%
Volume of ash	1.3%

Combustion System.

The burner system should be fully automatic package burners with the following features.

- Flame failure controls
- Adjustable flame patterns
- Integral fuel pump
- Solenoid valves
- Integral continuous air fan
- Fuel sensors.

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Evaluation Criteria for Procurement of SUPPLY & FIXING OF INCINERATOR PLANT LAUNDRY PLANT (LESS PRESSES, FINISHERS, FOLDERS)

Mandatory Documents	i. ATL ii. NTN Registration iii. GST Registration iv. Last year Income Tax Return. v. Last year Sales tax Return. vi. Latest three years Bank statement. vii. Affidavit on stamp papers duly attested regarding black listing other condition as per specimen on page-45 viii. Certificate that 2% CDR is attached with Financial bid.	Bids without Mandatory documents shall not consider for evaluation.														
S. No.	Parameters	Detail / Supporting Documents	Total Marks	Remarks												
1	Past performance (Last one year) as per signed Bid form 4	Major institution served: <table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td>i.</td> <td>No institution served</td> <td style="text-align: center;">0</td> </tr> <tr> <td>ii.</td> <td>1 to 2</td> <td style="text-align: center;">5</td> </tr> <tr> <td>iii.</td> <td>3 to 5</td> <td style="text-align: center;">10</td> </tr> <tr> <td>iv.</td> <td>More than 5</td> <td style="text-align: center;">15</td> </tr> </table>	i.	No institution served	0	ii.	1 to 2	5	iii.	3 to 5	10	iv.	More than 5	15	15	Institutions include Government departments and Private hospitals of 50 or more beds and registered with HRA KPK or Equivalent Registering Body.
i.	No institution served	0														
ii.	1 to 2	5														
iii.	3 to 5	10														
iv.	More than 5	15														
2	Market experience in quoted items	<table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td>i.</td> <td>1 to 3 years</td> <td style="text-align: center;">5</td> </tr> <tr> <td>ii.</td> <td>4 years or more</td> <td style="text-align: center;">10</td> </tr> </table>	i.	1 to 3 years	5	ii.	4 years or more	10	10	As a minimum requirement, during any of the last three years, he must have completed at least One contract involving the supply, of similar Goods and each at least 50% of comparable scale.						
i.	1 to 3 years	5														
ii.	4 years or more	10														
3	Product Sample	Goods samples will be examined & accepted by the Technical & Evaluation Committee as per the following parameters: <ul style="list-style-type: none"> Consistency in quality Durability <table border="1" style="width: 100%; margin-top: 5px;"> <tr> <td>i.</td> <td>Excellent</td> <td style="text-align: center;">15</td> </tr> <tr> <td>ii.</td> <td>Good</td> <td style="text-align: center;">10</td> </tr> <tr> <td>iii.</td> <td>Unsatisfactory</td> <td style="text-align: center;">0</td> </tr> </table>	i.	Excellent	15	ii.	Good	10	iii.	Unsatisfactory	0	15	Product that 100% comply with the advertised specifications will be considered for evaluation. NOTE: Warranty Period One year is Mandatory.			
i.	Excellent	15														
ii.	Good	10														
iii.	Unsatisfactory	0														

Total marks: 40

Qualifying marks: 70% (28) and above. the financial bids of technically accepted bidders will be opened publicly at a time to be announced by the Procuring Agency and the financial bids found technically non-responsive shall be returned un-opened to the respective Bidders. **Lowest priced bid from the technically qualified bidder will be accept**