



آغا خان ہسپتال اور میڈیکل کالج فاؤنڈیشن

The Aga Khan Hospital and Medical College Foundation

PRE-QUALIFICATION NOTICE

FOR

INCINERATOR PROJECT

BACKGROUND:

Aga Khan Hospital & Medical College Foundation (AKHMCF) is a Joint Commission International accredited tertiary care hospital. It is a philanthropic, not-for-profit private institution committed to provide exemplary high quality health care.

AKHMCF has its own incinerator that is used to incinerate all medical waste produced in the hospital. This is in compliance to Environmental Protection Agency (EPA) - Pakistan Standards, where a dedicated medical waste incinerator is required to incinerate medical waste through a controlled burning process. As the health care facilities at the hospital grow, it is necessary to increase the incinerator capacity. It is therefore imperative that a new incinerator is added to the existing incinerator at the hospital premises.

REQUIREMENT:

Pre-Qualification Notice for the Incinerator Project at the Stadium Road campus in Karachi, Pakistan is issued for pre-qualification. Contractors / bidders should be familiar with latest trends in technology in areas of Incineration of Medical Wastes.

Details of the requirement are attached herewith; marked as “Annexure A” for specification & as Annexure B for Drawings.

Documents to be furnished in the Proposal for Pre-Qualification

The bidders seeking pre-qualification for aforementioned project are requested to submit the following documents and details as a minimum for evaluation:

1. Complete administrative and financial details of the company with audited annual financial statements for the last 3 years.
2. Details of the company: established year, total number of employees and local agent details in Pakistan.
3. Written confirmation that the Company is in good standing with all tax, Government and Regulatory bodies.
4. Full disclosure of all legal dispute and claims.
5. Organizational chart and experience and qualification of key personnel.
6. List of similar contracts executed over the past 10 years with past performance / testimonials from clients.
7. Brief on Health, Safety, Environment, Quality Assurance, ISO Certification and Control systems followed.
8. Compliance certificate with all the requirements, as stated in AFD’s website.
9. Any other document in support of pre-qualification.

Interested bidders are requested to submit their details within 21 days of publication of this advertisement along with above details in two hard copies, two CDs and also send all information through email to procurement@aku.edu

Hard copies to be submitted as per below mentioned details, envelope should mention “**Incinerator Project**” and addressed to:

Senior Manager, Material Management Division
 Purchase Department
 Aga Khan Hospital & Medical College Foundation
 PO Box 3500, Stadium Road Karachi 74800 - Pakistan

Annexure – A

Specification

1	Plant Overview	A continuous loading incineration system with a capacity of 350 kg/hr. – 24 hours [8.4 tons/day] . It includes a fully automatic feeding system and automatic de-ashing system to minimize user intervention. A pollution control ceramic filtration system captures all the gases, soot and entrained solids. Waste to move to the combustion chambers, namely primary chamber, secondary chamber and chimney. Process to be controlled by modulating combustion air injection and control of ignition burners.
2	General	
	Make / Origin	European / American
	Spare parts list	One year free of cost
	Consumable and incidental spare list	One year free of cost [supplier needs to provide a comprehensive list]
	Transportation / lifting / placement /assembling at AKHMCF site	By supplier

	Supervision / installation /start-up /commissioning and training		By supplier
	Operation/maintenance period		18 months
	Warranty Period: from the date of commissioning		24 months
	Necessary tools and gauges		By supplier free of cost
	30 days training of AKU staffs at site		By supplier free of cost
	Pre-shipment machine testing at premises.		By supplier free of cost
	Operating /maintenance manual /drawings in Auto-cad-format		4 sets in bounded hard copy inclusive electronic file CD.
	Site inspection		Local vendor representative will inspect the site.
	Scale		1 No [vendor will supply a scale at the entrance to provide accounting of the amount of amount of waste]
	Fire protection system /control damper		AKHMCF provided at site
	Pollution control		Vendor to include as per standard
	Final Ash Disposal		Vendor needs to incorporate
	Combustion efficiency		Vendor needs to incorporate

	Shredder		Vendor needs to incorporate
3	International Standard / CE Compliance	:	The whole Plant and associated equipment supplied as part of the overall installation will comply with the international standard.
	Design Emission Standard in compliance with		EU standard – 2000/76/EC
	Gas treatment standard in compliance with		EE standard – 2000/76/EC-4/12/2000
	Industrial thermo processing – part 2		BS E7N4 6-2: 1997
	Low voltage directive		73/32/EEC
	Compatibility regulations		89/336/EEC, EMC
	Machinery Directive		89/392/EEC
4	Technical Specifications		
	Plant Duty		
	Incinerator type		Pyrotec, Semi Pyrolytic Chamber
	Type of system	:	Stationary or equivalent
	Waste type	:	Medical Waste
	Waste CV range		8 MJ/kg to 20 MJ/kg
	Waste CV design		14 MJ/kg
	Waste density range		70 kg/cu.m to 600 kg/cu.m
	Waste density design		200 kg/cu.m
	Hourly Capacity of the system	:	350 kg/hr.

	Thermal capacity		1,400,000 kcal/hr.
	Destruction capacity		8.4 ton / day
	Operating regime		Up to 20 to 24 hours/day
	Primary operating temperature	:	1,000 C or equivalent
	Secondary operating temperature	:	1,100 C or equivalent
	Fuel type	:	Natural Gas / Diesel
	Installation Area	:	Existing Infrastructure Layout is attached
	Maximum heat capacity	:	1,225,000 Kcal/hr.
5	Treatment system		
	Automatic loading system		Hydraulic Unit or equivalent
	Automatic de-ashing system		upward direction
	Heat exchanger		Air-cooled type or equivalent
	Flue Gas treatment system		By Dry / Wet Scrubber or equivalent
	Treatment of gases during combustion process		By Ceramic filtration system or equivalent
6	Plant Utilities		
	Power Supply		400 volt/ 3 phase / 50 Hz
	Electric Motor		TEFC squirrel cage induction motor, class F insulation – IP 54

	Capacity	45 Ampere
	Anticipated Usage	6 Kw / hr.
	Light fuel oil supply	Class D, NCV 42.8 MJ/kg
	Capacity	70 litre/hr.
	Anticipated Usage	27 litre/hr.
	Raw water [ash quenching only] supply	City water at 3 bar
	Capacity	1000 litre/hr.
	Anticipated Usage	10 litre/hr.
	Sorbent Powder or Sodium Bicarbonate supply	Technical grade via 1 m ³ bags or equivalent
	Capacity	50 kg/hr.
	Anticipated Usage	14 kg/hr.
	Natural gas pressure	8 psi
7	Chimney	
	Existing chimney length is 12 meter and width is 24" dia	Not required [existing to be utilized]

Annexure – B

Drawings



