

TERMS & CONDITION FOR INSTALLATION & COMMISSIONING OF CSSD MACHINES WITH INFRASTRUCTURE

1. The firm must be registered with Pakistan Engineering Council as described in Evaluation Criteria.
2. 2% CDR of total amount must be attached with financial bid whereas with Technical Bid there should be an affidavit affirming that CDR original is attached with financial bid. This CDR of 2% will be retained in case of successful bidder & will be considered as performance guarantee under KPPRA Rule. 20(4)
3. Income tax registration, all previous income tax must be attached with the bid & must be active with active on ATL including last year income tax return.
4. Sales tax registration must be included.
5. Last year sales tax must be included.
6. Cutting/ Overwriting & condition tenders will not be considered.
7. Firm must not be involved in any litigation with any Govt. Agency/ Department.
8. A stamp paper must be attached along with the bid stating that firm is not black listed & not involved in litigation against in any department.
9. Bank statement for the last three years must be attached with bid.
10. Sub-letting of the contractor to other contractor is not allowed.
11. Any false information if given in a bid will lead termination of contract and all deposited fee will be forfeited.
12. Technical staff & skill labor must be present at campus of the institute along with the necessary material for execution of work on emergency bases after signing the agreement.
13. The firm must be registered with KPPRA.
14. Hand written quoted priced in financial statement are not accepted.
15. The tender will be single stage two envelope as per KPPRA rule.
16. The tender will be opened as per advertisement opening time.
17. In case of increase in quantity of Original BOQ, approval must be taken from competent authority before.

18. Safety of company employee from injuries during execution will be at contractor risk and cost.
19. In-complete tenders/ bids will be rejected.
20. Contractor will work under the supervision of SM maintenance & DDM.
21. All material/ equipment will be checked and approved by the allocated committee assigned by the Competent Authority.
22. Tax will be conducted and deducted as per Government of Pakistan rule.
23. Bill should clearly indicate the NTN/GST number.
24. Partial payment will be after successful completion of 50 % work on submittal of bill after endorsing of committee.
25. Full and final payment will be after successful completion of work on submittal of bills & after endorsing from Boiler Engineer & DDM as well as assigned committee.
26. All material supply, erection & commissioning are at the contractor end while after verification of concerned engineer.
27. Labor charges, transportation, lifting for all purposes of the contractor, contractor is responsible.
28. In case any equipment or part is required to be removed from the system for repair/replacement or modification the contractor must obtain prior approval in writing from the boiler engineer or his nominated representative explaining reason for such requirement.
29. The contractor shall be bound to provide to their staff at site their own risk and cost all the related testing equipment kits, material descaling sets and effective descaling material welding sets, high vacuum testing sets, gas charging plants all kind of gases. i.e. Oxygen/ acetylene, nitrogen to expedite the operation servicing reasons for such requirement.
30. It shall be the sole responsibility of the contractor without any financial claim to keep all the indicating devices, instruments control, safety devices (electronics, electrical, mechanical hydraulic & pneumatic employed on various equipment & system perfectly.
31. All the replacement/ repairs and rectification of the defects and malfunctioning of the equipment must be attached in time.
32. The bidder must inspect the site before quoting the rates. ATH has the right to reject any bid with unrealistic rates or unworkable rate without assigning any reasons.

33. The bidder must furnish along with bid the breakable of their quotes as under. If the breakup is not mentioned the bid shall be considered as incomplete.
34. The contractor will be the responsible after erection & commissioning project by committee under the presence of Boiler engineer or DDM.
35. The contractor shall ensure that their site staff strictly maintain discipline at the ATH premises & strictly comply with the instructor issue from time to time by boiler engineer or his nominated representative the defaulter shall be penalized Rs. 5000 for each case.
36. During the witness above in clause 35, the financial express will be charge by vendor who would be working in the project.
37. After commissioning of incinerator the contractor is responsible for any material failure as per technical evaluation criteria.
38. Contractor will be responsible for its fully installation. For expert opinion for major modification, the contractor by himself will be responsible. More over if contractor failed to do the complete Job, he will be blacklisted, material will be forfeit and no payment will be done.

BOQ – CSSD Machines Installation & Commissioning

Sr.	Item	Description	Qty	Price	Total Price
1. Handling, Shifting & Installation					
1	Hydraulic lifter (custom motorized, narrow space compatible)	Heavy-duty hydraulic lifter with steering and lifting mechanism, having a minimum load capacity of 5 tons.	1		
2	Lifting chains, slings, rollers	Industrial-grade tying and securing equipment for transportation, with material and mechanism selected according to equipment lifting requirements.	1		
3	SS sheet repair & enclosure fixing	Supply and installation of 304 × 304 × 8 mm machine mounting pads (16 Nos.) with leveling mechanism for machine alignment and installation as per Getinge installation manual, including repair/replacement of damaged panels.	1		
2. Electrical System					
4	Power Distribution Panel (PDP), MCCBs, Contactors, Overload relays, Phase Sequence Relay	Main three-phase power distribution panel for 3 machines (100 kW, 5 kW, and 5 kW), including separate breakers for each machine, utility systems, HVAC system, and electric boilers, complete with busbar system, phase sequence relay, contactors, MCCBs, overload protection, and associated control accessories.	1		
5	Power cables (3-phase, armored), include all cabling for each machine, sensors and other equipments	Power and control cables sized according to connected load, including complete cabling for each machine, utility systems, and HVAC system.	1		
6	Cable trays, glands, lugs	Installation accessories	1		
7	Earthing system	Copper rod + strip	1		
3. Water Supply System					

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	Stainless Steel Water Tank	500 Liters x 500 Liter Cool and Hot Water Tank (food/medical grade) as per recommendation of Getinge AB manual	1		
9	Level sensors (High/Low/Continuous)	Float/Ultrasonic	2		
10	Temperature control system	Heater + Steam Trap + Steam Valve + NRV + Piping + Heating Coil. As per Getinge Manual 1/4" inch complete	1		
11	pH sensor	Inline industrial 0 to 80 °C	1		
12	Conductivity sensor	Inline industrial 0 to 80 oC	1		
13	Hardness test kit / analyzer	Digital/manual	1		
14	Water pump (VFD controlled)ss grade	3 HP booster pump with VFD control to maintain water supply pressure between 250–600 kPa as per Getinge AB manual recommendations.	1		
15	Pressure sensor	0–10 bar pressure sensor with analog output (4–20 mA or 0–10 V), compatible with PLC systems.	4		
16	Pressure gauge	Analog dia at least 3"	4		
17	Pressure control valve	Automated size 3/4"	3		
18	Vacuum valve	SS size 3/4"	3		
19	Non-return valve (NRV)	SS size 3/4"	3		
20	Strainer (Y-type)	SS size 3/4"	3		
21	Shut-off valve	Ball valve SS size 3/4"	3		
22	SS piping (complete network)	food/medical grade	1		

4. Steam Supply System

23	Steam Header SS 304	200 Liters (food/medical grade) as per recommendation of Getinge AB manual	1		
24	Shut-off valves	2 per machine size 3/4"	6		
25	Pressure reducing valves (PRV)	2 per machine size 3/4"	6		
26	Safety valves	2 per machine size 3/4"	6		
27	Air vents	2 per machine size 3/4"	6		
28	Sampling valves	1 per machine size 3/4"	3		
29	Pressure gauges	2 per machine size 3/4"	6		
30	Pressure sensors	0–10 bar pressure sensor with analog output (4–20 mA or 0–10 V), compatible with PLC systems.	4		
31	Non-return valves	2 per machine size 3/4"	6		
32	Strainers	2 per machine size 3/4"	6		
33	Steam traps	2 per machine size 3/4"	6		
34	Control valve (electronic)	Modulating size 3/4"	3		

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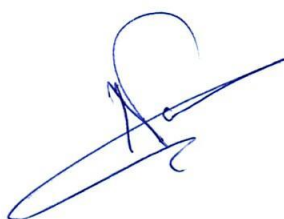
35	Steam pressure regulator system	Maintain 250–300 kPa as per recommendation of Getinge AB manual	3		
36	steam piping system	food/medical grade	1		
5. Air Supply System					
37	Air receiver tank	500 Liters (food/medical grade) as per recommendation of Getinge AB manual	1		
38	Refrigerated air dryer	Industrial	1		
39	Shut-off valve	1 per machine size 3/4"	3		
40	Strainer/filter	1 per machine size 3/4"	3		
41	Pressure gauge	1 per machine size 3/4"	3		
42	Pressure sensor	0–10 bar pressure sensor with analog output (4–20 mA or 0–10 V), compatible with PLC systems.	3		
43	Pressure regulator	600–800 kPa as per recommendation of Getinge AB manual	3		
44	Air piping system	food/medical grade	1		
6. PLC, HMI & SCADA System					
45	PLC (per machine)	S7-1200 with Ethernet and Analog input Cards along with Temperature Sensor integration provision.	3		
46	Auxiliary PLC (utilities control)	S7-1200 with Ethernet and Analog input Cards along with Temperature Sensor integration provision.	1		
47	HMI panels	Touchscreen 10" inch with Ethernet Support	4		
48	SCADA system	Central monitoring	1		
49	Communication modules	Modbus/Ethernet	1		
50	Control panels (Fabricated with wiring)	Connectors, Relays, Power Supplies	4		
7. Sensors & Instrumentation					
51	Water Tank Temperature sensors	For Auxiliary System with analog output, compatible with PLC systems.	1		
52	Chamber temperature sensors	For each machine with analog output, compatible with PLC systems.	3		
53	Ambient temperature sensors	Room monitoring with analog output, compatible with PLC systems.	1		
54	Humidity sensors (ambient)	Industrial with analog output, compatible with PLC systems.	1		

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55	Flow sensors (water/steam/air)	recommended by Getinge AB manual	3		
8. Mechanical & Replacement Provisions					
56	Repair Provision	Gaskets & seals, Valves internal repair kits, Heating elements, Pumps repair kits, Electrical relays/contactors	1		
9. Testing & Commissioning					
57	Pre-commissioning inspection	Mechanical & electrical, Hydro testing (water lines), Steam testing, Air system testing, Calibration of sensors, Trial run & validation	1		
10. Labor & Services					
58	Skilled Worker	Mechanical engineers, Electrical engineers, PLC programmer, Technicians, Helpers, Installation supervision, Control & power, Automation	1		
11. Air Handling Unit					
59	Air Handling Unit (AHU) Refurbishment	Dampers, damper motors, filters, sensors, heating coil, cooling coil, blowers, fan assemblies, PLC, HMI, controls (excluding compressor & condenser)	1		
12. Ultrasonic Cleaner					
60	Ultrasonic Cleaner	100 Liter Ultrasonic Washer complete unit	1		
13. Structure					
61	Fasteners, clamps, supports	SS/industrial	1		
62	Stainless Steel Fabrication (SS304)	Complete SS304 grade sheets, structures, anchors, supports and fabrication works	1		
63	Cable Tray, Utility Line Works, Pipe insulation	(Cable tray, steam line, air line, water line, chiller water supply and return piping installation)	1		
64	Steam & Utility Line Refurbishment	Steam line refurbishing, installation of isolation valves for steam, water, chiller supply/return and air line	1		
65	Labels & safety signage	Compliance	1		
66	Miscellaneous	Any thing other than this BOQ for special Feature			




Technical Evaluation For CSSD

MANDATORY

- 01) Registration Certificate For NTN & KPRA.
- 02) Active Status on ATL for NTN & KPPRA
- 03) Last 01-03 year bank statement
- 04) Lat Year Income Tax Return
- 05) Registration With Pakistan Engineering Council
EE11(VI), EE10, EE04, ME07(V), ME06, ME01, ME04, ME05
- 06) Affidavit on stamp Paper duly attested mentioning following statements,
(a) 2% CDR is attached with financial bid.
(b) The firm is Not Black listed
(c) Non-shareholder certificate (that no employee of MTI ATH Abbottabad is shareholder in the Firm's Business.
(D) The Supplied item will be provided as per bidding document & all relevant documents would be provided at a time of delivery.
- 07) One year warranty is Mandatory.
- 08) Certificate of 100% compliance with purchaser's specification shall be provided on Firm/ Company Letter Head.

Sr. No	Parameters	Detail/Supporting Documents	Max. Marks	Remarks
1	Additional Feature in Term of Hardware enhanced Specification	Additional Special Feature not mentioned by the purchaser.(Max 5 Marks depending upon the utility of additional feature offered)	7	
2	Physical Resources	List of relevant Qualified/(Engineers, Diploma Holders, welders Etc)(Engineer=1, diploma=0.5, HTM Certified=2, Welder=0.5)	7	Details with supporting Documents must be attached.
		List of relevant specialized tools to be used for the job i.e Crane, lifter, welding machine, NDT Test equipment, Hydro Testing Equipment. X-ray Floresces	7	
		Availibility of Technical Support 24/7 for 1 year certificate	7	
		OFFICE IN THE PREMISES UNDER 300KM	7	
3	Past performance of last five years	02 marks per work order. Maximum 10 marks (only attach valid work orders reflecting to aseptic use for food grade and medical grade.relevant to General fabrication	5	Institution include Govt, Semi Govt, Autonomous Bodies & Private Entities.
4	Spart Part List & avialibility as per Years	Spare Part List with Availibility. Total Marks 5(one mark per year)	5	

5	Warranty	01- 06 months beyond asked warranty	3	5	
		02-01 Year beyond asked Warranty	4		
		03- 02 Year Beyond Asked Warranty	5		

Procurement Procedure of Single stage two envelopewill be adopted for tendering.
In technical Evaluation 70% (35/50) marks will be passing marks.
Lowest priced among technically qualified bids will be accepted.

