

DR. B. BOROOAH CANCER INSTITUTE

A Grant- In- Aid Institute of Department of Atomic Energy. Govt. of India

And a unit of Tata Memorial Centre, Mumbai

Gopinath Nagar, Guwahati-781016

GST No.: 18AAALB0017E1ZW

Date: 13-03-2023

Sub: GeM Tender for Supply, installation and commissioning of Horizontal Autoclave (Steam Sterilizer) at Dr. B.Borooah Cancer Institute.

Bid No.: GEM/2023/B/3106868, dated: 10.02.2023

CORRIGENDUM

Sr. No.	Queries	Response
1	The manufacturer should be certified by a Notified Body for ISO 13485: 2016	As per NIT
2	The manufacturer / bidder should have an experience of carrying out similar works in the state of Assam	The manufacturer / bidder should have an experience of carrying out similar works in the state of Assam/India
3	For pre-qualification the manufacturer / bidder should have at least 02 or more equipment of similar or higher specification / capacity in the north east region.	For pre-qualification the manufacturer / bidder should have at least 02 or more equipment of similar or higher specification / capacity in the north east region/India
4	Performance Guarantee: The successful bidder will have to submit performance bank guarantee of 3 % of total estimated value at the time of execution of the contract.	As per NIT
5	Technical Specification for fully automatic Horizontal Steam Sterilizer (Minimum 450 litres or more with min. 6 STU in single process) - QTY 02 numbers.	As per NIT
	The Sterilizer should be of capacity 450 litres or more with min. 6 STU in single process with horizontal rectangular chamber.	As per NIT
6	The chamber should be reinforced with stainless steels. S.S.316Ti jacket. The jacket besides re- enforcing the chamber should also ensures temperature uniformity in the sterilization space. The jacket should be provided with a safety valve.	As per NIT
7	The internal surface is electro - chemically/ mechanically treated for high quality smooth finish to facilitate cleaning. The resultant surface is polished to minimum 1.25 μ value which is highly protected against corrosion. The internal corners should be rounded to aid cleaning.	As per NIT
8	The sterilizer supplied should be double door with fully automatic vertical sliding door movement with use of pneumatically/ Electrically operated system. The door should be moved vertically by a pneumatic cylinder/ Electrically operated at touch of a button for opening and closing. It should have safety facility with an audible alarm.	As per NIT
9	The jacket should have insulation of minimum 50mm thickness non-fibre shredding resin bonded Glass wool/ mineral wool and should be held in place with a SS/ Aluminum outer cover	As per NIT

10	7. The pressure vessel should be designed as per ASME SEC VII/ European standards i.e. PED as per Directive 2014/68/EU. Certificate of compliance to be provided.	As per NIT
11	A high temperature resistant silicon- sealing gasket is pneumatically activated for effective sealing. The Door should have mandatory door obstruction safety. The door should have fabrication from SS 316 L material - May please be deleted	As per NIT
12	11. The steam generator should be of 35-40 KW fabricated from stainless steel SS 316 L plates with automatic RO water filling should be automatic through a dosing pump.	As per NIT
13	The steam generator should have chloride free mineral wool/mineral glass wool of thickness 25 mm to 50 mm insulation with SS 316 or Aluminum.	As per NIT
14	The Steam Generator should be provided with two no's water level sensors. One sensor to be provided at the bottom of the steam generator to protect the heaters from dry run. The other sensor at the top to maintain the control of water level. A safety valve should be provided. There should be a glass gauge or water level indication on screen available.	As per NIT
15	Control valve in the process lines are pneumatic. These valves should have S. S. 304/ Red brass/ copper contact part with Teflon seal. Manual valves whenever used should have S.S.304 Ball Valves with Teflon seat.	As per NIT
16	Jacket and chamber should be provided with pressure gauge and compound gauge or digital display on Screen	As per NIT
17	The chamber & the door are finished to a surface finish not less than 1.25 µ value.	As per NIT
18	The chamber should be provided with railings of SS316 L/ 316 Ti and baffle of 316 L	As per NIT
19	The steam sterilizer should be operated through a PLC. The PLC should be equipped with a non- erasable memory and battery back up for in-interrupted operation with data storage facility.	As per NIT
20	There should be a Bioseal on the unloading side of the sterilizer to avoid complete cross contamination from unsterile to sterile side made of SS 304 and should facilitate opening of the unloading door in the bioseal section. Please clarify?	As per NIT
21	Printer: The autoclave should have inbuilt thermal / thermal strip chart printer which prints the each cycle parameter performed by the sterilizer.	As per NIT
22	Open Liquid Sterilization.-May please be deleted.	As per NIT
23	There should a built in battery to save and store the data of PLC.	As per NIT
24	There should be a provision of additional MCB / switch to make the sterilizer manually stop & start the power supply.	As per NIT
25	The bidder should provide all the material test certificates / PED certificate EN 13445-3 certificate from a notified body.	As per NIT
26	The manufacturer should be US FDA certified / European CE with 4 digit Notified Body and ISO 13485:2016 from a notified body.	As per NIT
27	Should meet EMC directive 2014/68/EU,	As per NIT
28	IQ/OQ/PQ should be carried out at the cost of the supplier and consumables for 500 cycles should be supplied along with each sterilizer. Like Bowiedick test kit, class 5/ 6 indicators, Biological indicators and incubator required. The incubator should be of 03 position and dual temperature system for selection between 37 & 60 deg C.	As per NIT
29	Technical Specification of R.O. Capacity 1000 Ltr.: Please clarify?	As per NIT i.e. 1000 Ltr.
30	MII Purchase Preference: No	As per NIT
31	Delivery: 150 Days from the date of supply order or 120 days from the date of site readiness certificate from consignee	120 days from the date of issue of supply order

32	Sliding door will have operating issues in long run and many times it sticks and to open it requires special training and knowledge and its only comes with Imported Autoclaves, spare parts availability is also difficult. Whereas radial locking door system have very less service issues and can be repaired/ service by our own technicians.	No Change in NIT
33	This certificate is only required in case of bigger size vessels which not less than 300PSI and above. Whereas asked Autoclaves comes in small vessel category which requires only 32PSI. It requires only Argon arc welding procedure. However Certificate of compliance can be provided by manufacturing company.	Certificate of Compliance to be provided by manufacturing company
34	The maximum capacity requirement is 1 HP only. 3 HP can cause damage as it create such a high vacuum that it can cause accident.	As per requirement of the Autoclave
35	PLC cannot have battery backup as it connects to main Autoclave which operates through electricity. SCADA system is not possible to incorporate this in asked Autoclave.	PLC should be inbuilt battery & also connected to UPS.
36	The steam sterilizer should be provided with Coloured Man Machine Interface (MMI) for simple touchscreen and graphic display. All message, temperature and pressures are easily displayed on the LCD - Please specify the type graphic, hospital authorities required.	The standard graphic as per requirement.
37	The electricity consumption asked is 18-24KW. Such requirement is not possible thru UPS. It may need large power generator of 30KW-40KW to produce such electricity.	UPS is for display panel/LCD & computer system if any not for run the Autoclave.
38	Regular 10-15 ltrs RO water is sufficient for 9-10 hours autoclaving. 3000 liters RO is not required.	No change in NIT.

BL 19 13/3/23

Sr. Administrative Officer
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