

U.P. STATE CONSTRUCTION AND INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

(A Govt. of U.P. Enterprises)

(AN ISO 9001:2000 certified Organisation)

Reg. Office : T.C. - 46 V, Vibhuti Khand, Gomti Nagar, Lucknow (U.P.)

S.N.	Particulars	Amount (Rs. Lac)
1.	Cost of work	121.78
	Total	121.78
	Less 5%	(-) 6.09
	FINANCIAL BID Total	115.69

FOR

**Bio-waste management Plant
work at Medical college
Allahabad**

(UTTAR PRADESH)

(VOLUME-II)

Name of :

Address:

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U.P. State Construction and Infrastructure Development Corporation Ltd.

Name of Work :- **Bill of Quantity** Management Plant at S.R.N. Hospital and Medical College Allahabad

Name of Work :- Estimate for Bio Medical Waste Management project at S.R.N. Medical College Allahabad.

S.N.	Particulars	Amount(Rs.Lac)
1.	Cost of work	161.78
	Total	161.78
	Less 5 %	(-) 8.08
	Total	153.69

J.E.

A.E.

E.E.



Rate offered by bidder (+) %

Rs.....Lacs

Above/below

Net Amount

In Word

Rs.....

In Figures

Signature of bidder

Bill of Quantity

Technical Specifications of Bio Medical Waste Management At- S.R.N. Hospital & College , Allahabad.

Sl. No.	Description of Goods	Rate
1	<p>BIO MEDICAL WASTE HYDROCLAVE: (Integrated with Autoclave and Shredding)</p> <p>Type : Vertical/Horizontal Cylindrical Capacity : up to 50 kgs/batch Chamber Volume : 500 Litres Steam Boiler (electric): Provided Chamber : SS 316 Jacket : SS 304 Door : SS 316 (duly reinforced) Shredder/Breaker : SS 316 (duly motorized) Insulation : Glass Wool Bucket : SS 304 Structure : SS 304 Tank : SS 304 Cladding : Composite SS duly High Temperature Color Coated Duty Cycle : Loading Vacuum Purging (over 99% Air Expulsion) Sterilization/ Rotor Shredding / Breaking Exhaust Drying Cycle Vacuum Breaking Unloading</p>	4978000

TECHNICAL SPECIFICATIONS

Working Temperature: 135°C

Working pressure (max): 2.5 kg/cm²

Test Pressure (max) : Chamber 3.8 kg/cm² Jacket
/Boiler 5.0 kg/cm²

Loading door : Hinged/ Sliding (Pneumatics)

Sealing Gasket : High Temperature Resistant Silicon Gasket

Air Purging : Provided with water film

Vacuum Pump Boiler

Water Treatment Plant: RO plant

Cycle Timing : 35 minutes (approx)

Controlled Operations: Microprocessor PLC (Color
Touch Screen) About Pre-
programmed cycle options as
follows:

F1 – High Speed Cycle with Vacuum purging @ 135°C

F2 – Slow Speed Cycle with Vacuum purging @ 126°C (if needed)

F3 – Bowie + Dick Test

F4 – Operator's Choice

F5 – High Speed Cycle without Vacuum purging @ 135°C

F6 – Slow Speed Cycle without Vacuum purging @ 126°C (if needed)

F7 – Leakage Test

F8 – Operator's Choice

Printing System : Data Storage (upto 100 cycles)
with USB transfer port is
provided On-line Printer is also
provided

Cycle Completion : Provided both Visual & Audible

Electrical Load : 3 Phase connection, 380/440
volts, 50/60 Hz

Power Required : 48 kw.

Salient Features

1. Construction

- Entire fabrication done with high grade Steel/ Stainless Steel, as mentioned in the Technical Specification Sheet to ensure minimal corrosion on the machine
- Sturdy Foot Stool Structure at the base of machine to ensure it rests firmly in the desired location at site; yet is easy and hassle free to move whenever required
- Machine Leveler provided to level the machine for optimal and stable usage whatever be the flooring conditions

	<p>Type</p> <p>Floor Standing</p> <p>Housing Outdoor weather protection metal sheet</p> <p>Housing c/w double layer panel's</p> <p>F) PANEL</p> <p>Components</p> <p>Run/trip indicating light</p> <p>Start/stop push button</p> <p>Emergency push button</p> <p>Power saving on no load</p> <p>Auto reversal to avoid jamming of machine</p> <p>Speed control option</p> <p>G) Integral Components</p> <p>Shredder Blades are shock proofed, having high wearing Resistance. It's made of Tools Steel.</p> <p>Shredder spacers also shock proof and Having high wearing Resistance. It's made of Alloy steel hardened.</p> <p>Main Shaft Made of AISI 4140 / 4340 steel</p> <p>Kinves Cleaning Bar Made of alloy steel to clean the shredder knives.</p> <p>Cutting Assembly Left & Right cutting motion</p> <p>H) Construction of Machine</p> <p>Housing Mild steel or high tensile plate of welded construction</p> <p>Hopper Mild steel or high tensile plate of welded construction</p> <p>Base Frame Mild steel wide-flange beam of welded construction</p> <p>Machine External pain work Primer coated with gloss finishing</p>	<p>(10)</p>
5	<p>BLOOD BAG SHREDDER:</p> <p>Capacity : 10 Kg</p> <p>Maximum rpm : 50</p> <p>The blood bag shredder will be designed to Shredding the blood bag and treat the chemical as per cpcb norms. The Shredder will designed to meet the specific needs in processing various type of plastic and rubber medical waste that are generated in the hospital.</p>	590000
6	<p>EFFLUENT TREATMENT PLANT:</p> <p>Make : Labco</p> <p>Capacity : 20 KLD</p> <p><u>3.0. TREATMENT SCHEME</u></p> <p>The treatment process of STP will consists of four stages.</p> <p>Stage 1: Primary Treatment</p> <p>Bar Screen, Oil & Grease Trap, Collection cum Equalization tank with Aeration System (aeration grid & Air Diffuser and pipeline).</p> <p>Stage 2: Secondary treatment</p>	2865000

	<p>Coagulation and Flocculation unit with Chemical Dosing System & Settling Chamber (Clarifier).</p> <p>Stage 2: Third treatment Aeration Tank complete with aeration grid & Air Diffuser, pipeline and Biological Treatment media, bacteria and settling Chamber (Clarifier).</p> <p>Stage 3: Tertiary Treatment Chlorine Contact Tank, Dosing System, Pressure Sand Filter, Activated Carbon Filter.</p> <p>Stage 4: Sludge Treatment Sludge Drying Beds</p>			
7	<p>SYRING & NEEDLE DESTROYER:</p> <p>Feature: Body made of M.S. with power coating Destroys all size of needles. Hardened and ground stainless steel blade cuts syringes easily No chance of using needles and syringes Small compact and table top design. Heavy duty tray can store up to 500 needles.</p>	50	2500.00	125000.00
8	<p>JET PRESSURE CLEANER: Electric pressure washer equipment systems are designed with the wide range of PSI and flow rate. They can be used for light, medium and heavy-duty jobs. They are quite and easy to use. Simply attach a water hose, add a detergent and plug it into the electrical outlet. The only limitation is that they can be used where electrical power source is available. Nevertheless, since they don't have a gasoline tank you can them and store them indoors without worrying about the fire hazard. The advantage over other types is that are very economical to operate and are traditionally less expensive. In our selection you will find from smallest to largest, cold or hot water units.</p> <p>Pressure washer electric: model are suitable for areas where there is a constant need for cleaning dirty surfaces with necessity for their non-movement positioning. Heavy duty equipment contains a convenient quick change soap tip that can vary in angle allowing you to choose the amount of soap necessary for completing the job. The STAT models have a four bolt mounting plate underneath the motor and are designed to be mounted on a shelf for permanent installation.</p>	01	158000.00	158000.00
9	<p>ELECTRONIC BALANCE: The unit will be complete with inbuilt battery, Auto Charging facility, Automatic Voltage Regulator, Sturdy mechanism with overload protection.</p>	01	65000.00	130000.00

	Specification: Capacity- 60 kg Accuracy – 10 Gm. Plate From – St. Steel Display- 1 No. Digital Size – 450mm*450mm			
10	WASTE HANDLING RICKSHAW: The Waste Handling Rickshaw will be fully covered with loading door made of Mild Steel Sheet painted with aqua green paint. A symbol of hazardous as per Pollution Control Board will be print in every site. Inner side of waste handling Rickshaw will be fully water proof by chemically coated. It will be air tight and three wheel drive type.	02	65000.00	130000.00
11	WASTE BIN: (Waste Material Handling) Paddle lifting type waste material collection Bin be made of 1st grade PP in Three colour (Red, Blue & Yellow). A symbol of hazardous as per Central Pollution Control Board will be print in every bin. Waste Bin Volume will be: 30 Ltr. (Set of Red, Blue & Yellow)	100	300.00	33.0000.00
12	WHEEL BARROW:	1	19500	19500.00

Total - 1,61,78000.00

(UTTAR PRADESH)

(VOLUME-II)



Name of :

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