

LRSI

**LALA RAM SARUP INSTITUTE OF TUBERCULOSIS &
RESPIRATORY DISEASES, NEWDELHI**

Tender

for

**Plan, Design, Supply Installation Testing & Commissioning of Kitchen
Equipments at LRS Institute of Tuberculosis & Respiratory Diseases
New Delhi**

VOLUME – III

PRICE BID

September 2012



(Consultants & Engineers for Mega Hospitals & Laboratories)
E - 6 (A), Sector - I, NOIDA (U.P.) - 201 301 (INDIA)

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Tender No. HSCC/LRSI/PG-1/107/KITCHEN/2012

BILL OF QUANTITIES (BOQ)							
Part-I							
Plan, Design, Supply, installation & commissioning of Kitchen with 2 years Warranty for LRSI Hospital, NewDelhi							
All equipments must be from ISO certified company							
SLNo.		Specifications 2	Size/Unit 3	Qty. 4	Unit Rate in Rs. (in Figure) 5	Unit Rate in Rs. (in words) 6	Amount in Rs. (In Figure) 7
CENTRAL KITCHEN							
1	Preparation Table with 1u/s	Top of 16 swg S.S-304 sheet on M.S Angle frame work duly rust proof painted on structure made on SS square/tubular legs with adjustable bullet feet for uneven floors. Also fitted with a under shelf. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	2000x600x850	2			
2	Single Burner Stock Pot	Top of 16 swg. S.S-304 Sheet on M.S Angle frame work duly rust proof painted on SS Tubular/ Square legs with adjustable bullet feet for uneven floors. Fitted with United/Sarna make heavy duty burner with pilot lamps with individual control valves and heavy duty cast iron pan support complete with accessories as per specification.	750x750x600	6			
3	Side Table	Same as sl.ni.1	1500x600x600	2			
4	Exhaust hood	Entire exhaust is made of 20 swg.S.S-304 Sheet with S.S-304 baffle filters. Fitted with grease collection tray and hung with metal fasteners complete with accessories as per specification.	3000x1600x600	1			
5	Boiler (Tilting)	Double walled glass wool Insulated all S.S-304 Sheet body. The outer Most is of 18swg S.S-304 Sheet body. Fitted with heavy duty high pressure burner with pilot lamp & individual control valves. Fitted with water inlet & water outlet valve & strainer at the bottom level of the boiler also fitted with a Top opening lid with insulated handle. The entire boiler is mounted on heavy duty tubular legs. Also fitted with a heavy duty tilting gear to extract the boiled food complete with accessories as per specification.	150ltr.	2			
6	Brazing Pan (Tilting)	Double walled mineral wool insulated all S.S-304sheet body on heavy duty tubular legs with adjustable bullet feet. Fitted with heavy duty burner with pilot lamp with individual control needle valve. Fitted with tilting gear to extract contents after cooking & water inlet valve. Also fitted with top opening lid with insulated handle complete with accessories as per specification.	80 ltr.	1 No.			
7	Exhaust Hood	Entire exhaust is made of 20 swg.S.S-304 Sheet with S.S-304 baffle filters. Fitted with grease collection tray and hung with metal fasteners complete with accessories as per specification.	3000x900x600	1			

8	Chapatti Plate cum puffer	Structure made of mild steel angle frame duly rust proof painted . Top of 12 mm mild steel, front Panel and under shelf 18swg S.S-304sheet, vertical legs of S.S-304 round pipe of 16swg. 1.5" diameter with nylon adjustable feet. Complete with CI perforated grill for puffing of chapattis, heavy duty high pressure RV burner pilot, individual control valves Indian Oil corporation approved complete with accessories as per specification.	1500x600x850	4			
9	Chapatti Rolling Table (Manual)	Top made of 16swg S.S-304 sheet on MS Angle frame work with rust proof painted on S.S-304 square pipe 25x25mm/Tubular legs frame work and under shelf made of 18swg S.S-304 sheet. Vertical legs of S.S-304 round pipe of 16 swg. 1.5" dia with nylon adjustable feet complete with accessories as per specification.	1200x600x850	2			
10	Automatic Chapatti Rolling Machine	Rolling out of chapati of round shaped, Each chapatti should be of diameter-5 to 6 inch complete with accessories as per specification	500 Chapatti/hr.	1			
11	Chapatti collection Trolley	Structure made of MS angle, duly rust proof painted Body completely constructed of S.S-304 sheet. Sunken top of 16 swg.S.S. Sheet on S.S tubular legs on heavy duty wheels- 2 with breaks & 2 normal complete with accessories as per specification.	750x600x850	4			
12	Exhaust hood	Entire exhaust is made of 20 swg.S.S-304 Sheet with S.S-304 baffle filters. Fitted with grease collection tray and hung with metal fasteners complete with accessories as per specification.	1650x750x600	2			
13	Work Table with sink	Top of 16 swg S.S-304 sheet on SS frame work on Structure made of S.S-304 square/Tubular pipe. Sink made of 14 swg S.S-304 on LHS/RHS and under shelf made of 18 swg S.S-304 sheet. Vertical legs of S.S-304 round pipe of 16 swg. 1.5" dia with nylon adjustable feet. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1200x600x850+150	1			
14	Side Table	Same as sl.ni.1.	1200x600x850	1			
15	Dough Kneading Machine	Body completely constructed of heavy duty cast iron with gear box mounted on the top the mixing bowl of S.S-304 sheet 14 swg with S.S-304 arm to mix the dough and is operated electrically with heavy duty motor of 1 hp. Motor shall be S1 type of IS : 325 standard (Latest version) and of Kirloskar/NGEF/Siemens/ABB/GEC/Crompton Greaves make complete with accessories as per specification..	25 kg.	2			
16	Work Table with sink	Top of 16 swg S.S-304 sheet on SS frame work on Structure made of S.S-304 square/Tubular pipe. Sink made of 14 swg S.S-304 on LHS/RHS and under shelf made of 18 swg S.S-304 sheet. Vertical legs of S.S-304 round pipe of 16 swg. 1.5" dia with nylon adjustable feet. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1200x600x850+150	1			
17	Garbage Cart	Moulded Plastic container with 2 Nos-Big castor wheel. Garbage cart should be set to keep vertically upright on its basecomplete with accessories as per specification.	Capacity-100 ltrs,	2			

PREPARATION AREA							
1	Preparation table with sink	Top of 16 swg S.S-304 sheet on SS frame work on Structure made of S.S-304 square/Tubular pipe. Sink made of 14 swg S.S-304 on LHS/RHS and under shelf made of 18 swg S.S-304 sheet. Vertical legs of S.S-304 round pipe of 16 swg. 1.5" dia with nylon adjustable feet. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1500x600x850+150	1			
2	Preparation Table	Top of 16 swg S.S-304 sheet on M.S Angle frame work duly rust proof painted on structure made on SS square/tubular legs with adjustable bullet feet for uneven floors. Also fitted with a under shelf. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1800x600x850+150	1			
3	Wall shelf	Shelf constructed of 18 swg S.S-304 sheet & supports constructed from the 16 swg sheet	900x300	1			
4	SS stand for Chopping blocks with boards	All S.S-304 sheet body to hold poly carbonate chopping boards-4Nos.complete with accessories as per specification.	600x600x850	4			
5	Vegetable Cutter cum Food Processor	Reputed imported make with 5 attachments- 2 slicing, 1 chopping, 1 shredding & 1 french fry cutting blades with S.S. jar blender. complete with accessories as per specification. Imported	200 Kg/hr	2			
6	Wet Grinder	Body: made of 16swg SS: 304 sheet food gr. Complete with revolving drum, grinding stone & wooden scrapper. Motor:1h.p. (Motor shall be of heavy duty S1 type of IS : 325 standard (Latest version) and of Kirloskar/NGEF/Siemens/ABB/GEC/ Crompton Greaves make) Electric motor & gear box complete with accessories as per specification..	5 ltr.	1			
7	Potato Peeler	The heavy duty peeling drum is made of 18 swg. SS sheet on three nos tiny legs with adjustable bullet feet and a rotating disc of SS sheet being connected with heavy duty motor of S1 type of IS:325 standard, single/three phase and of Kirloskar/NGEF/Siemens/ABB/GEC/Crompton make. Also pasted with emery granules inside the drum and on rotating disc to peel and fitted with water inlet valve and aluminum casting/SS sheet our pour to extract peeled potatoes complete with accessories as per specification...	10 kg.	1			
8	Garbage Cart	Moulded Plastic container with 2 Nos-Big castor wheel. Garbage cart should be set to keep vertically upright on its base complete with accessories as per specification.	Capacity-100 ltrs,	2			

POT WASH							
1	Pot Rack-4shelves	The heavy duty 4 tiers rack are made of S.S-304 square pipe (38mm & 25mm) and duly welded with 4 nos. uprights on nylon adjustable feet for uneven floor complete with accessories as per specification.	1200X600X1650	1			
2	Pot Rack	All the shelves are S.S-304 Square/Round pipes on 4Nos Square/Round legs with adjustable bullet feet. All the joints are firmly welded and nicely grinded, polished and puffed to a smoother finish complete with accessories as per specification..	1200x450x1650	3			
3	Pot wash Sink	To be constructed with Brick and Cement (Masonry Work)	1500x1500x600	1			
4	Garbage Cart	Moulded Plastic container with 2 Nos-Big castor wheel. Garbage cart should be set to keep vertically upright on its base complete with accessories as per specification.	Capacity-100 ltrs,	1			
PANTRY							
1	Work table with sink	Top of 16 swg S.S-304 sheet on SS frame work on Structure made of S.S-304 square/Tubular pipe. Sink made of 14 swg S.S-304 on LHS/RHS and under shelf made of 18 swg S.S-304 sheet. Vertical legs of S.S-304 round pipe of 16 swg. 1.5" dia with nylon adjustable feet. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1500x600x850 +150	1			
2	Coffee/Tea Machine Dispenser	Double walled glass wool insulated all S.S-304 Sheet body. Fitted with 3.0 kw heating element with auto temp. controller & indicating lamp, water level indicator, Gun metal faucet one for water and another for milk complete with accessories as per specification..	250 cups/hr	1			
3	Work table	Top of 16 swg S.S-304 sheet on M.S Angle frame work duly rust proof painted on structure made on SS square/tubular legs with adjustable bullet feet for uneven floors. Also fitted with a under shelf. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1500x600x850	2			
4	Micro oven	Convectional, Complete with accessories as per specification.IFB/Equivalent	30 ltrs.	1			
5	Egg boiler	Double walled mineral wool insulated all SS Sheet body on SS legs with adjustable bullet feet. Fitted with 3.0 kw immersion type heating element with auto temperature controller and indicating lamps. Also fitted with a top opening lid with insulated handle and two insulated handles on either side to carry. Also fitted with water inlet, outlet valves & water level indicator complete with accessories as per specification.	120 pcs egg/cycle	1			

6	Milk boiler	Triple walled mineral wool insulated all SS sheet body on SS legs with adjustable bullet feet. The outer most wall and the second wall is mineral wool insulated and the other wall water proof and fitted with water inlet, outlet, over flow valves and water level indicator. Also fitted with 3.0 kw immersion type heating element with auto temperature controller and indicating lamps and a heavy duty gun metal faucet. A top opening lid with insulated handle is fitted. Also fitted with two nos, insulated handles on either sides to carry complete with accessories as per specification.	50 ltrs.	1		
7	Two Burner with Oven	Top of 16 swg. SS Sheet on M.S Angle frame work duly rust proof painted on SS Tubular/ Square legs with adjustable bullet feet for uneven floors. Fitted with 2 nos. United/Sarna make heavy duty burner with pilot lamps with individual control valves and heavy duty cast iron pan support. Also fitted with an oven beneath with 3.0 Kw heating elements with auto temp. controller & indicating lamps complete with accessories as per specification.	1200x600x850	1		
8	Exhaust hood	Complete frame work 20/22swg. Complete joints are air tight insulated weather proof mechanically painted on the Upper surface. S.S-304 filters-island type complete with accessories as per specification.	3000x900x600	1		
9	Hand wash Unit	Splash as per Layout (Rear & against side wall) Front & free side marine edge. 350mm dia.x200mm High Die Pressed Sink complete with 38mm dia. C.P. Drain Waste Out let. 16 gauge S.S-304 wall brackets. Secured to top with Acorn nuts & Bolts & Bracket secured to wall with anchor fasteners. Rear & Both sides 20 gauge S.S-304. One Deck mounted Jackson Swivel type water mixer water faucet. Unit mounted 865mm AFF complete with accessories as per specification.	600x600x450	1		
10	Garbage Cart	Moulded Plastic container with 2 Nos-Big castor wheel. Garbage cart should be set to keep vertically upright on its base complete with accessories as per specification.	Capacity-100 ltrs,	1		
SET-UP AREA						
1	Preparation Table with 1U/S	Top of 16 swg S.S-304 sheet on M.S Angle frame work duly rust proof painted on structure made on SS square/tubular legs with adjustable bullet feet for uneven floors. Also fitted with a under shelf. The top is fitted with stud welded bolts with the frame for sturdy and stronger grip.	1200x600x850	13		
2	Preparation Table with 1U/S	Same as above.	1500x600x850	6		
3	Preparation Table with 1U/S	Same as above.	900x600x850	1		

4	Hot Food Service Trolley	Double walled insulated with glass wool. Inner side made of 18swg & outer side made of 20 swg as Stainless steel 304 sheet with 4 no heavy duty Castor wheels (4"/6" dia) with 2 wheels locking arrangement and push cart type handle constructed from ss pipe. Trolley has Immersion type 3Kw heating elements with auto temp. controller & indicating lamp with temp. Indicator to keep 4 Nos big round containers of 10 ltrs. capacity each and 5 more small containers of suitable capacities all with lids to keep food hot vegetable/soup/card etc. and one rectangular for container for to keep chapattis. Also fitted with one middle and bottom shelves with lockable door. Rubber cushion to be fitted at the corners to prevent damage during transportation complete with accessories as per specification..	900x600x900	16		
5	Platform Trolley	The entire trolley is made of 16 swg. S.S. Sheet on M.S. Angle frame work, duly Rust proof painted on heavy duty castor wheels. The top to be stud welded with the frame for stronger grip. Also fitted with a push cart type handle & rubber cushion in front to avoid the damage during movement.	900x600x250	2		
6	Garbage Cart	Moulded Plastic container with 2 Nos-Big castor wheel. Garbage cart should be set to keep vertically upright on its base complete with accessories as per specification.	Capacity-100 ltrs,	2		
STORE						
1	Dunnage Rack	Make Sintex/ Nilkamal, Moulded type	900x600x250	10		
2	Weighing Scale Electronic	Electronic weighing scales of standard make to weigh upto 200 kg. The certificate from Weights & Measures Dept. is to be attached with the machine, duly certifying the serial no. complete with accessories as per specification.	200kg	1		
3	Storage Rack with 5 tiers for Vegetable store	All shelves are made of 18swg S.S-304 sheet on 4 nos round/square legs with adjustable bullet feet. All the shelves are having "C" channel through to accommodate maximum load bearing ability complete with accessories as per specification.	900 x 450 x1800	6		
4	Two door Refer.	Structure made of mild steel angle frame duly rust proof painted. Body completely constructed of S.S-304 sheet double walled insulated with puf, inner tank of 22 swg and outer of 20swg S.S-304 sheet the inner chamber will have 3 nos. Of wire mesh made removal shelf with height adjusters mounted on S.S-304 channels. The refrigerator will have 2 nos. S.S-304 double walled insulated 18 swg doors spring activated with locking arrangements. The refrigerator is mounted on four S.S-304 tubular legs with S.S-304 bullet adjustable feet. The compressor and condenser unit of Emerson/ Techumshah/Copeland/Danfoss make with Automatic temperature controller and temp. Indicator complete with accessories as per specification.	750x750x2100	1		

5	Water Cooler	Structure made of mild steel angle frame duly rust proof painted. Body completely constructed of S.S-304 sheet double walled insulated with puf, Inner tank of 22 swg and outer of 20 swg S.S-304 sheet food grade. The water cooler is mounted on four S.S-304 tubular legs with S.S-304 bullet adjustable feet. Complete with compressor and condenser unit of Emerson/ Techumshah/Copeland/Danfoss make with automatic temperature controller and temp. Indicator complete with accessories as per specification.	250 ltr.	1		
6	Onian/ Potato Bin	The entire bin is made of S.S. wire meshed body on heavy duty castor wheels. Fitted with top opening lid and the inclined bottom to have a lockable door to extract.	900x600x750	3		
7	Cereal/Atta/Maida Bin	The entire bin made of 18 swg S.S-304 sheet on tiny castor wheels & with top opening lid.	900x600x750	6		
8	Cold Room	Room size- Temperature -0 to 4 degree centigrade Insulation: Panels 60mm thick PU at 40-42kg density,PCGI exposed exterior 0.5mm thick sheet,PCGI exposed exterior 0.5mm thick sheet, PCGI interior 0.5mm thick sheet, floor interior and exterior of 0.5mm thick PCGI exposed sheet, Ceiling exterior PCGI, interior PCGI Sheet 0.5mm.Vertical, Panels Joint with Cam lock coupling in Tongue & Groove arrangement. Thickness of PUF Panels (for Wall, Ceiling & Floor)- 60mm.Wall & Ceiling panels Finish- Internal: SS 304 External: PCGI Galvanized Ironic Sheet. Flooring- Kota stone by client. Density of Panels-40kg/cub.m No. of Doors- One for Main Room Type. of Doors- Over Lapped or Flash Type Door Size-900mm x 1950mm. Accessories Included in the scope of Supply-1. Door Alarm 2. Lock Defeat mechanism 3. Light Inside the cold room. 4. Handle, Hinges & Locks. 5. Microprocessor based digital control. Panels. 6. Panel Accessories & necessary Hardware. Technical Feature of PUF Panels, Doors, & Accessories: Individual Panel is manufactured with closed cell Rigid Polyurethane foam, injected at high pressure, which secures the bond with facing material to form a single piece construction. RPUF insulation is CFC free and has Zero ODP- Ozone Depleting potential. Core density of 40kg / Cu.M Panel finish is designed to resist many chemicals including most common cleaning agents. The panels have fire rating to BS.467 part 7, clause 1. Wall, floor & ceiling panels joined with Tongue and groove mechanism with cam lock system. The compressor and condenser unit of Emerson/ Techumshah/Copeland/Danfoss make with Automatic temperature controller and temp. Indicator complete with accessories as per specification.	4500X3000X2100	1		
9	Storage Rack 5 tiers	All shelves are made of 18 swg SS: 304 on 4 nos round/square legs with adjustable bullet feet. All the shelves are having 'C' Channel through to accommodate maximum load bearing ability complete with accessories as per specification.	900x450x1800	8		
10	Storage Rack 4tiers	All shelves are made of 18 swg SS: 304 on 4 nos round/square legs with adjustable bullet feet. All the shelves are having 'C' Channel through to accommodate maximum load bearing ability complete with accessories as per specification.	800x450x1200	3		

		LPG BANK					
1	LPG Bank	20 + 20 (One set working another set standby) LPG Cylinder Bank of 14.2 Kg each LPG cylinder with :Class'C' seamless steel pipe conforming to IS:1239 (Latest version) with Pressure Gauges (0-15 PSIG & 0-5PSIG, dial type) Complete with accessories as required as per specification.	1 Lot	1 lot			
		TURNKEY WORKS					
1	Insect killer	Twin tube.	Branded.	12			
2	Air curtain	3 entry points	Length as per drg.	1			
			Length as per drg.	2			
3	Split Air-Conditioner	To be fitted at the suitable locations in the office of the Kitchen Make-Hitachi/Carrier/Sharp/Voltas/General	1.5 Ton	4			
4		Electric distribution panel for the above Kitchen equipment complete with all switchgears, wiring and controls etc complete as per specifications and drawings. (Switch gears of L&T/ Siemens/ ABB/GE or Schneider make)		1 lot			
5		Electrical cabling of IS : 1554 standard and wiring as per IS : 732 standard from MDB(Single point source) to Electric Distributional Panel and to the corresponding load points		1 lot			
6		Providing fixing of Electrical Gadgets like ELCB, MCB, Light Points, Power points, Fans, Cool air Fans, Exhaust fan etc in the Kitchen room. • Number of fans, power point, bulbs/tube light. Apart from this supplies to the individual equipments with ELCB & MCB in the Kitchen room. • Installation of MCB, ACB, ELCB & OCB of Havell/Siemens/L&T/Schneider etc for Control Panel for Kitchen.		1 lot			
7		Laying of GI water pipe line with necessary taps, joints, elbows, Unions and valves of GI made and IS-1239 standard (Latest version) from overhead tank (Overhead tank is at the roof of Kitchen room)to the installed machines'/users' ends at Kitchen Room.		1 lot			

8		Installation and commissioning of Water Softener for softening of available ground/supply water continuously at the hardness necessary for washing and other application required for Kitchen is at least “< 50 ppm” or as per suitability of the Steam Generators/equipment. The Water Softening System shall be installed in the capacity compatible to the requirement of Kitchen equipments and system running for the assigned duration at fully loaded condition. The specimen of ground/supply water is available at the site of installation at LRSI, NewDelhi for design and selection of Water Softening System.		1 lot		
9		Construction/laying of Draining/Sewer system from all the equipments/Sinks to the main drain (outside the Kitchen) with proper trap and flow system and tapping.		1 lot		
10		Necessary Ducting of GI sheet with grills at the suitable places for air washing /air circulation for fresh air at the working place inside the kitchen. Exhaustion of hot air and ventilation for creating comfortable working zone within the Kitchen. Equipping of blower and Axial fan. Motor shall be of suitable capacity, continuous duty S1 type of IS : 325 standard (Latest version) and of Kirloskar/NGEF/Siemens/ABB/GEC/ Crompton Greaves make.		1 lot		
11		Arrangement for requisite fire fighting for Kitchen Room and its maintenance for the contract period including approval from or as per State/Central Govt. regulation/local authority/NDMC/Statutory body if required		1 lot		
12		Additional work pertaining to Civil, Electrical, Plumbing, Sanitary and any other protections relevant as per State/Central Govt. regulation/local authority/NDMC, Furniture, Servo stabilisers, U.P.S. etc. required for successful installation testing and commissioning of the system and the offered price should include all such costs, each Schedule is to be considered a package in itself and contractor to execute the order package on a “turn key basis”.		1 lot		
		SUB TOTAL Rs.				

Part-II						
Item No. 1	Description 2	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in (Rupees in Words) 6	Amount (Rs.) (In Figure) 7
1.0	Comprehensive Maintenance Charges for the complete Kitchen appliances including spares, repair or replacement of defective equipments/parts, tolls, tackles, accessories, consumables, labour charges etc. complete in all respect after completion of Warranty as per the contract.					
	Ist Year		Job	1		
	2nd Year		Job	1		
	3rd Year		Job	1		
	SUB TOTAL Rs.					
	SUMMARY OF RATES QUOTED					
1	TOTAL (PART-I)					
2	TOTAL (PART-II)					
Grand Total Amount (PART - I + PART - II) (in Figures) :-						
In words : Rupees						

Date

Seal and Signature of Bidder

Note

- 1 The above format of Bill of Quantity(BOQ) should be neatly hand written.
- 2 The BOQ in any other format other than the aboveformat or typed written shall be rejected.
- 3 The above quoted rates will be inclusive of all taxes, duties and other charges.
- 4 Cost of CMC will be added for ranking purpose
- 5 Cutting and overwriting should be avoided. Correction should be countersigned always.
- 6 In case any error between Unit rate in figure and unit rate in words, the unit rate in words shall be considered