Tender downloaded from Internet

TENDER FORM

for

Various items for College of FPTBE

Last date of tender submission through RPAD/Speed Post

January 31, 2016

<u>NOTE</u>:

For the form downloaded from the internet payment of Rs. 500/- by DD drawn in the favour of "AAU Fund A/C", payable at Anand should accompany this form <u>separately</u> other wise the form shall be treated as incomplete and cancelled.

COLLEGE OF FOOD PROCESSING TECHNOLOGY & BIO ENERGY ANAND AGRICULTURAL UNIVERSITY, ANAND - 388 110 (GUJARAT) Tel. /Fax No.: 02692 -261302

- Name of supplier / firm:
- Complete postal address:
- Telephone Number (Land line):
- Mobile Number:
- FAX Number (if any):
- e-mail address (if any):
- Details of EMD:

D. D. Number:

Amount:

Date:

- Sales Tax No. :
- Registration No. :
- Any other details

We agree to abide by the terms and conditions of supply / work mentioned in this tender document.

Signature of Tenderer (With Stamp, Name & Designation)

Terms and Conditions:

- 1. Rates quoted should be inclusive of all applicable Taxes and F.O.R. our laboratories at Anand inclusive of installation, commissioning and demonstration, if any.
- 2. The rates quoted should be valid for the current financial year 2015-16 i.e. upto March 31, 2016.
- 3. Being an educational institution we are eligible for exemption of excise and custom duty. Hence, rates should be quoted accordingly.
- 4. Payment shall be made only after satisfactory installation and demonstration. No advance or part payment or payment through bank can be entertained.
- 5. The credentials of the party, list of customers and complete illustrated literature should be enclosed with the tender. The firm should be ready for pre inspection of the item and its performance, if necessary.
- 6. Tenderers will have to attach original colour catalogue of the each quoted product ensuring exact specifications.
- 7. All the electronic hardware should comply with international standards for safety, electromagnetic emissions and immunity, CE/FCC Mark/Certification, etc.
- 8. In case of defective items, the same shall have to be replaced by the party concerned at its own cost, and risk, and within stipulated time.
- 9. The Earnest Money Deposit (EMD) in the form of crossed Demand Draft in favour of "AAU Fund Account" payable at Anand, shall have to be accompanied with the filled Tender Forms. Tender submitted without EMD shall not be considered. The deposit shall be forfeited if the party in any case is not able to supply the goods/ complete the work in stipulated period and at the rates approved.
- 10. The quantity mentioned in the tender is indicative and approximate only, it may vary.
- 11. Duly filled tender forms in sealed envelopes through <u>**RPAD**/speed post only</u> should reach the office of the Principal, College of FPTBE, Anand Agricultural University, Anand 388 110 before **17.00 hr** on <u>January 31, 2016</u>.
- 12. Please super scribe the envelope, "Rates for Various items for College of FPTBE" and mention clearly senders' name and address.
- 13. The PRINCIPAL shall be empowered to reject any one or all the tenders without giving any reason for doing the same. This shall not be challengeable in the Court.
- 14. In case of disputes, decision of Vice Chancellor, Anand Agricultural University, Anand will be final and acceptable to all the parties.

1 Soybean Milk Production Unit (EMD amount Rs 10,000/- for item) 01 Electrically operated Soybean to produce soymilk @ 80 litter/hour soymilk with about 6-8% solids. Totally SS 304 system should have following parts to process soy-milk further: a) a) Vacuum Flash Deodorizing System for removal of beany flavor/off smell associated with soy milk, should be capable of handling 30-50 litre/batch of shurry with the provision of positive displacement variable speed sanitary product removal pump. b) b) Flashing Chamber (one) for flashing the milk from 10°C (approx.) to 70-80°C (approx.). Chamber must be equipped with vacuum gauge. c) c) Vacuum Pump (one) - made up of SS sleeves and should be Monobloc, water ring type to achieve full vacuum. d) d) Condensate Receiver with Cover (one set) e) Grinder Cooker equipped with a grinder, single phase motor and having uniform cooking, optimum distribution of material inside the cooker, control of flow of feed, imported safety valve (pressure relief valve), pressure and temperature gauges to monitor cooking of soy shurty. f) In built Electrical Steam Generator: Two numbers of matching capacity made up of SS sheet for total steam required and should had a safety pressure relief valve, make up water inlet valve/blow down valve, gauge glass with fittings and pressure gauge to monitor the actual pressure and level of water in the steam generator and other needed accessories. g) Hydraulic Filter Press (SS) should comprise of a SS perforated cylinder with attached hydraulic system to separate okara from milk and with complet necessary valves, fittings and accressories. h) Hydraul	S. No.	Specification	Approx. Quantity	Cost
 Electrically operated Soybean Milk Production Unit required to process soybean to produce soymilk @ 80 littre/hour soymilk with about 6-% solids. Totally SS 304 system should have following parts to process soy-milk further: a) Vacuum Flash Deodorizing System for removal of beany flavor/off smell associated with soy milk, should be capable of handling 30-50 litre/batch of slurry with the provision of positive displacement variable speed sanitary product removal pump. b) Flashing Chamber (one) for flashing the milk from 110°C (approx.) to 70-80°C (approx.). Chamber must be equipped with vacuum gauge. c) Vacuum Pump (one) - made up of SS sleeves and should be Monobloc, water ring type to achieve full vacuum. d) Condensate Receiver with Cover (one set) e) Grinder Cooker equipped with a grinder, single phase motor and having uniform cooking, optimum distribution of material inside the cooker, control of flow of feed, imported safety valve (pressure relief valve), pressure and temperature gauges to monitor cooking of soy slurry. f) In built Electrical Steam Generator: Two numbers of matching capacity made up of SS sheet for total steam required and should had a safety pressure relief valve, make up water inlet valve/blow down valve, gauge glass with fittings and pressure gauge to monitor the actual pressure and level of water in the steam generator and other needed accessories. g) Hydraulic Titler Press (SS) should comprise of a SS perforated cylinder with attached hydraulic system to separate okara from milk and with complete necessary valves, fittings and accessories. h) Hydraulic Tofu Maker (SS) should consist of a 10 ton hydraulic press with tofu table having 4 boxes (detachable). Capacity ranges should be 10 kg of tofu/batch. 	1	Soybean Milk Production Unit (EMD amount Rs 10,000/- for item)	01	
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Lowest competitive rates are hereby invited for the purchase of items bearing the specifications as follows:

	The system should be complete in all respect on turnkey basis.		
2	Butter churner (EMD amount Rs 2,500/- for item)	01	
	Butter churner electrically driven, cylindrical butter churner having SS 304 barrel, 20 Lit. Capacity with input output door, sight glass, air vent, drain etc. The barrel should be mounted on MS stand with proper support and along with chilled water circulation pipe. Butter trolley made from SS 304 sheet duly framed and fitted with nylon wheels of appropriate size.		
3	Dough rounder (EMD amount Rs 10,000/- for item)	01	
	The conical rounder is designed for intermediate and final round moulding of dough & should have following specifications: Machine capacity (pcs/h) approximately 2800 Moulding range (g) from 100g – 2500 g with different spirals. Spiral length (mm) 3750 Installed power with air blowing device (kW) 3.15		
4	Dough moulder(EMD amount Rs 5,000/- for item)	01	
4	Dough moulder(EMD amount Rs 5,000/- for item) It should be able to mould different sizes of dough balls and should have reversible conveyor. Three pairs of SS rollers with scraper set should be provided. It should be easily adjustable to clear the gap between lower roller and conveyor. The scrapers and rollers can be easily cleaned. The system should be complete with motor, roller, scraper all accessories, installation etc.	01	
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4 5 6	 Dough moulder(EMD amount Rs 5,000/- for item) It should be able to mould different sizes of dough balls and should have reversible conveyor. Three pairs of SS rollers with scraper set should be provided. It should be easily adjustable to clear the gap between lower roller and conveyor. The scrapers and rollers can be easily cleaned. The system should be complete with motor, roller, scraper all accessories, installation etc. Dough Fermentation cabinet (EMD amount Rs 10,000/- for item) It should be fully made up of stainless steel and is used to ferment dough, after mixing and before baking the products. It should have digital temperature control with maximum operating temperature of 70°C. The system should be complete with burner, motor, all accessories, installation etc. 	01 01 01 01	

7	Labeling machine (EMD amount Rs 5,000/- for	01	
	item)		
	The automatic self adhesive bottle sticker labelling		
	machine for in-line; containers are transported along		
	a stat conveyor and separated by a roller before entering the labelling station and should have		
	following specifications:		
	Output (Minutes): Up to 100 Round Containers		
	(depending on the size of the container or the label		
	length)		
	Construction: Top stainless steel matt finish & S. S.		
	Pipe structure is covered with S.S. 304 sheet.		
	Motor for Pressing Device 0.25 HP / 1400 RPM		
	6V DC Stepper Motor.		
	Input Specifications : 25 mm to 80 mm		
	Round Container Dia. 30 mm to 180 mm Length		
	Label: 16 mm to 100 mm width		
	Label Roll Diameter Max. 400 mm		
	The machine should be complete with all frond side		
	guide rail adjuster label placement system belt		
	drives, controllers and all accessories.		
8	Flour sifter (EMD amount Rs 5,000/- for item)	01	
	The sifting machine of 30 kg/ min for fast and		
	economical sieving of flour for bakeries, chemical		
	and related products should have following		
	specifications: The machine airs and sieves the flour		
	A rotating feeder for transporting the flour into a		
	horizontal conveying system to a vertical conveying		
	screw		
	The sifting drum to loosens the flour and feeding into		
	the mixing bowl		
	Simple demountable stainless steel sieve sets for		
	Sleving which is automatically correctly tensioned.		
	controlled by the feed controller		
	The machine constructed on M.S. angle frame		
	covered with M.S. sheet and duly painted. Flour		
	sieving attachment is fitted with steel cams on ball		
	bearings ad oil seals to avoid sound and vibration.		
	The system should be complete with all drives,		
	screws, sieves and other accessories.		

9	PLC system ((EMD amount Rs 5,000/- for item)	01	
	(i) PLC with 14 Digital and 2 Analog I/Ps and 10		
	Digital and 1 Analog O/Ps preferably Siemens		
	PLC CPU Type : CPU-224XP (AC/DC/Relay),		
	Digital Input : 14,		
	Digital Output : 10, Analog Input : 2, Analog Output :		
	Internal Memory Bits : 256, Program Size : 4096		
	Words, Boolean		
	2 No		
	2 NO Interface : USB Expansion module : Expandable		
	interface : 05D, Expansion module : Expandable		
	(ii) Analog Module with 4 Channel Analog Input		
	and 1 Channel		
	Analog Output preferably Siemens		
	Analog input-Total Channel : 4		
	Input ranges-		
	Voltage (Unipolar) : 0 to 10 V, 0 to 5 V, 0 to 1 V, 0		
	to 500 mV, 0		
	to100 mV, 0 to 50mV		
	Voltage (bipolar) : 10V, 5V, 2.5V, 1V, 500 mV, 250		
	mV, 100		
	mV,50 mV, 25 mV		
	Analog Output- Total Channel : 1		
	Signal range, voltage output : ± 10 v, Current output		
	. 0 to 20 mA It should be compatible with above specification (i)		
	it should be compatible with above specification (i).		
	(iii) Data Acquisition Card		
	It should be useful for sensing and controlling		
	Analog and Digital signals of any process control		
	application. For ease of connection it should have		
	screw terminals. All pins are multifunction and user		
	can change the operation of particular pins as per the		
	requirements. It should be available with either a		
	USB and/or Ethernet interface.		
	Data Card should include following specifications:-		
	Analog Input 8, Analog output 8, Digital Input 8		
	Digital Output 8		
	ADC Resolution (In Bit) 24		
	(iv) Signal Conditioning circuit for above DLC		
	(1) Signal Conditioning circuit for above FLC		
	(v) Latest model of branded computer with licensed		
	Windows 8		
	and other accessories.		
	PID Controller		
	 Input : Universal Input. 		

	• Output : 0-12 VDC SSR/Relay/mA.		
	• Accuracy $\cdot 0.1\%$		
	• Retransmission output : $4-20 \text{ mA}/1-5 \text{ VDC}$		
	 Auviliary 24 VDC Power Supply for Transmitter 		
	(Net in DTD input)		
	(Not in RTD input).		
	 Modbus Communication : RS232 / RS485. 		
	 Power Supply : 90-270 VAC/VDC +24/ +48 		
	VDC (Optional).		
10	Hydraulic Pallet Truck (EMD amount Rs 10.000/-	01	
	for item		
	Electric operated hydraulic truck for transfer of		
	product pallets in the processing area and should		
	have following specifications		
	Capacity, Kg: 1000-2000		
	Width of overall Forks: mm 540-550		
	Fork Length, mm: 1100		
	Lifting Height, mm: 110		
	Single fork width, mm: 160		
	Fork wheel tender mm: 80*70		
	Min height of fork mm: 80		
	Max Height of fork, mm: 800		
	Weight, Kg :70-140		
	Battery: Rechargeable battery of suitable capacity		
	Travel Speed Load, km/hr: 3-8		
	Travel Speed Without load, km/hr: 4-9		
	Wheel: Nylon/Polyurethane		
	Control lever: 3 Nos. (lifting/lowering/ neutral)		
11	Pipe and fittings (EMD amount Rs 10,000/- for	1 set	
	item i)- xxx) or any one of these)		
i)	ISI mark ¹ / ₂ " S.S. Pipe, Quote rates per running feet	4000 ft	
ii)	ISI mark ³ / ₄ " S.S. Pipe, Quote rates per running feet	4000 ft	
iii)	ISI mark ¹ / ₂ " SS elbow, Quote rate per unit	20 Nos	
iv)	ISI mark ¹ / ₂ " SS-T, Quote rate per unit	20 Nos	
v)	ISI mark ¹ / ₂ " SS nipple, Quote rate per unit	20 Nos	
vi)	ISI mark ¹ / ₂ " SS coupling, Quote rate per unit	20 Nos	
vii)	ISI mark ¹ / ₂ " SS union, Quote rate per unit	20 Nos	
viii)	ISI mark ¹ / ₂ " SS handle valve, Quote rate per unit	20 Nos	
ix)	ISI mark ³ / ₄ " SS handle valve, Quote rate per unit	20 Nos	
x)	ISI mark ³ / ₄ " SS union, Quote rate per unit	20 Nos	
xi)	ISI mark ³ / ₄ " SS elbow, Quote rate per unit	20 Nos	
xii)	ISI mark ³ / ₄ " SS-T, Quote rate per unit	20 Nos	
xiii)	ISI mark ³ / ₄ " SS nipple Quote rate per unit	20 Nos	
xiv)	ISI mark ³ / ₄ " SS coupling Quote rate per unit	20 Nos	

xv)	'B' Class, ISI mark ¹ /2" G.I. Pipe, Rates per running	4000 ft	
	feet		
xvi)	'B' Class, ISI mark 1" G.I. Pipe, Rates per running	4000 ft	
	feet		
xvii)	'B' Class, ISI mark ³ / ₄ " G.I. Pipe, Rates per running	4000 ft	
	feet		
xviii)	'B' Class, ISI mark ¹ /2" G.ICoupling, Quote rate per	20 Nos	
	unit		
xv)	'B' Class, ISI mark ¹ / ₂ " G.IT, Quote rate per unit	20 Nos	
xvi)	'B' Class, ISI mark ¹ /2" G.IElbow, Quote rate per	20 Nos	
	unit		
xvii)	'B' Class, ISI mark ¹ / ₂ " G.INipple, Quote rate per	20 Nos	
	unit		
xviii)	B' Class, ISI mark ¹ / ₂ " G.IUnion, Quote rate per	20 Nos	
	unit		
xix)	B' Class, ISI mark $\frac{1}{2}$ " G.IHandle valve, Quote rate	20 Nos	
	per unit	20.11	
XX)	B' Class, ISI mark ³ / ₄ " G.I Coupling , Quote rate	20 Nos	
•	per unit	20 N	
XX1)	B' Class, ISI mark ³ / ₄ G.I 1, Quote rate per unit	20 Nos	
XX11)	B Class, ISI mark ⁹ / ₄ G.IElbow, Quote rate per	20 Nos	
	(D' Class ISI mark 3/" C. L. Nipple, Quota rota par	20 Nos	
	b Class, ISI mark ⁹⁴ G.I Nipple, Quote rate per	20 NOS	
vviv)	'B' Class ISI mark ³ /" G L Jinion Quote rate per	20 Nos	
	unit	201103	
xxv)	B' Class ISI mark ³ / ₄ " G L –Handle Valve Ouote	20 Nos	
	rate per unit	201105	
xxvi)	B' Class, ISI mark ³ / ₄ " G.IUnion, Ouote rate per	20 Nos	
,	unit		
xxvii)	1" UPVC pipe, Quote rate per running ft	4000 ft	
xxviii)	1" UPVC- Coupling, Quote rate per unit	20 Nos	
xxix)	1" UPVC- T, Quote rate per unit	20 Nos	
xxx)	1" UPVC- Elbow, Quote rate per unit	20 Nos	
12	Electrical wire and cables (EMD amount Rs	1 set	
	5,000/- for item (i)- (vii) or any one of these)		
i)	Single core PVC insulated copper flexible wire	800 m	
	1 sq. mm, ISI grade, RR Kabel or Equivalent	800 III	
ii)	Single core PVC insulated copper flexible wire	2500 m	
	1.5 sq. mm, ISI grade, RR Kabel or Equivalent	2300 III	
iii)	Single core PVC insulated copper flexible wire	4500 m	
	2.5 sq. mm, ISI grade, RR Kabel or Equivalent	1500 III	
iv)	Single core PVC insulated copper flexible wire 4 sq.	200 m	
	mm I.S.I mark, RR Cable or Equivalent	_00 m	
v)	Single core PVC insulated copper flexible wire 10	500 m	
	sq. mm I.S.I mark, RR Cable or Equivalent		
vi)	Four core PVC insulated copper flexible cable	300 m	
	1.5 sq. mm I.S.I mark, RR Cable or Equivalent		

vii)	Four core PVC insulated copper flexible cable 2.5 sq. mm I.S.I mark, RR Cable or Equivalent	300 m	
viii)	Four core PVC insulated copper flexible cable 4 sq. mm I.S.I mark, RR Cable or Equivalent	200 m	
ix)	Four core PVC insulated armoured 10.0 mm ² copper cable. RR Cable or Equivalent	500 m	
x)	Four core PVC insulated armoured 6.0 mm ² copper cable, RR Cable or Equivalent	200 m	
xi)	ISI make PVC insulated flexible copper wire 24/20	500 m	
13	Furnishing of Food Sensory Lab (EMD amount Rs 10,000/- for item)	1 set	
	 Rs 10,000/- for item) Providing and fixing laboratory working tabular fixtures of different sizes and designs as indicated. Quote single rate for total of A + B. The indicative specifications are given below and the line diagram of each with dimensions are attached. A) Sensory Module: 2 nos. each of 5 booths (Fig. A) The module should be comprised of sliding door, lighting, electrical connections, etc. complete in all respect. The working surface will be of powder coated metallic sheet on which toughened glass of 8mm thickness is to be fitted and supported on tubular/ angle structure frame duly powder coated. There should be appropriate provision for light on the top of the table as shown in the sensory module. Booth Size : - 900mm L X 600mm D Each booth should have facility of sliding door of size -500 mm X 300 mm H, opening rotary hatch / hatch with vertical Sliding Lighting in each booth shall be uniform, glair free, shadow free, comfortable with dimmer device Each booth should have- (i) Cold Light (Day Light) with a colour, Temp. of 5600 – 6200 Kelvin and 1000 – 1500 Lux (ii) Red, Blue and Yellow UV Tubes – 01 No. each in each booth Communication circuit for word less communication between the Test person and Testing personnel Provision for computer, monitor, key board drawer etc. in each booth Electrical Points in each booth for computer – 16A switch socket – 05 Nos. 		
	B) MS Fixtures The fixtures should be as per drawing shown in Fig		
	B. MS platform should be made of MS fixtures		

	having 600 mm L x 550 mm W x 850 mm H with top		
	of jot block granita of desired length x 850 mm W x		
	17-1 mm thickness duly poliched and moulded		
	$1/\pm 1$ min unckness, dury poinsieu and moulded,		
	Workharsh should have broaddown two modular		
	workbench should have knockdown type modular		
	under bench steel cabinet having sturdy frame,		
	panels, legs, one drawer (460 mm w x 550 mm L x		
	100 mm H), two snutters having 450 mm H with		
	lock and shelves fabricated using GMP of scientific		
	laboratory equipment from cold rolled steel sheet		
	(Tata or equivalent make) of prime grade having		
	minimum 20 guage thickness or CRC pipe of 30 mm		
	x 30 mm x 16 guage thickness. The module should		
	be strong enough to bear load of 1000 kg/m ² and be		
	provided with strong brackets and stiffners.		
	All metal be epoxy powder coated with minimum 50		
	micron and finished with desired colour shades as per		
	ASTM/BS/DIN/IS. All the hardware be BIS grade of		
	reputed make including drawer pulls of double		
	extension telescopic side channels, auto closing		
	spring loaded hinges with cathode electrode		
	deposition for better corrosion resistance, Godrej		
	make locks, shelf support clips, stainless steel		
	handles and SS sink etc. The drawer and cabinet		
	should be strong enough to carry about 50 kg load of		
	different articles.		
	Corner sink unit with SS water taps, two shutters		
	duly mounted on separate SS pedestal strong enough		
	and made from SS 304 section of minimum 2 mm		
	thickness.		
	For any query, the site at College of FPTBE can		
	be visited.		
14	Furnishing of Food Product Development Lab	1 set	
	(EMD amount Rs 10,000/- for item)		
	Providing and fixing laboratory working tabular		
	fixtures of different sizes, designs and specifications		
	as indicated below and as per attached line diagram		
	in Fig. C.		
	Quote single rate for total modules inclusive of		
	platforms, utilities and fume hood etc. (A to D)		
	A) Cooking modules of 1200 mm L x 750 mm W x		
	900 mm H $-$ 12 Nos. (as A3 to A14 in diagram)		
	and 1200 mm L x 900 mm W x 900 mm H- 4 Nos. (as		
	A1, A2, A15, A16) having $1/\text{mm} \pm 1\text{mm}$ thick Jet		
	Black single granite top with inbuilt double burner		
	55 304 cooking range of approved brand along with		
	two SS 304 drawers (450-2D-450 mm) fitted with SS		
	baskets one for disnes, thali and other utensils and		
	/50-2D-/50mm SS 304 under bench storage fitted		
	with adjustable shelf and two shutters with locking		

system . The module should have one reagent rack (1200 mm L x 150 mm W x 600 mm H) fabricated with SS 304 sections and sheet not less than 1 mm thick complete with two shelves, one 20 A MCB and two 16 A five point plug sockets of approved reputed make.	
The whole module be strong and robust with complete pedestal made of minimum 2 mm thick SS 304 sections.	
B) Oven rack modules of 750 mm L x 750 mm W x 900 mm H- 6 Nos. (as B2 to B7 in diagram) and 750 mm L x 900 mm W x 900 mm H 2 Nos. (as B1 & B8 in diagram) having 17mm \pm 1mm thick Jet Black single granite top with rack with adjustable shelves made from SS 304 sections/ sheets of minimum 1 mm thickness, strong enough and suitable for microwave/ baking ovens. The module should be complete with two nos. of 20 A MCB and 16 A sockets of approved reputed brand.	
C) Side module of 12300 mm L x 750 mm W x 900 mm H – 1 No. having $17mm \pm 1mm$ thick Jet Black granite top with seven numbers of SS sink units (750-2S) and one number of corner sink unit along with SS water taps, two shutters duly mounted on separate SS pedestal strong enough and made from SS 304 section of minimum 2 mm thickness. All modules as mentioned in A, B and C should be	
 complete in all respect with SS hinges, Godrej double action locks, SS handles, telescopic channels, baskets, shelves, etc all of SS 304 or higher grade duly fixed and fitted as per the geometry of the laboratory. Utilities as below should be also provided as per the requirement > Water pipe line with individual sink, with necessary fittings. > UPVC drainage pipe line from each sink outlet to drainage with necessary fittings. > Gas line as per IS standard centrally connected with 16 Nos. cooking range with individual 	
on/off from gas cylinder store/ PNG line.Electrical wiring and connections	
D) Fume Extracting Unit complete for all 16 cooking ranges duly made of SS 304 suction hopper fitted with SS grill and oil traps and connected with centrally G.I. powder coated ducting fitted with adequate size blower and chimney The blower should be of adequate capacity with	

laboratory with appropriate size chimney. The suction should be sufficient enough to avoid any fumes, smokes, vapours etc. from the entire area. For any query, the site at College of FPTBE can be visited. 15 Furnishing of Food Rheology and Microstructure Lab (EMD amount Rs 2,500/- for item) MS platform should be made of MS fixtures having 600 mm L x 550 mm W x 850 mm H with top of jet black granite of desired length x 850 mm W x 17±1 mm thickness, duly polished and moulded, levelled on 6 mm ply and have SS 304 sink. Workbench should have knockdown type modular under bench steel cabinet having sturdy frame, panels, legs, one drawer (460 mm W x 530 mm L x 100 mm H), two shutters having 450 mm H with lock and shelves fabricated using GMP of scientific laboratory equipment from cold rolled steel sheet (Tata or equivalent make) of prime grade having minimum 20 guage thickness or CRC pipe of 30 mm x 30 mm x 16 guage thickness. The module should be strong enough to bear load of 1000 kg/m² and be provided with strong brackets and stiffners. All metal be epoxy powder coated with minimum 50 micron and finished with desired colour shades as per ASTM/BS/DIN/IS. All the hardware be BIS grade of reputed make including drawer pulls of double extension telescopic side channels, auto closing spring loaded hinges with cathode electrode deposition for better corrosion resistance, Godrej make locks, shelf support clips, stainless steel handles, etc. The drawer and cabinet should be strong enough to carry about 50 kg load of different articles. Cable Trench of 2000 mm length fitted with 8 Nos of 16 amp shock proof electrical plug socket with 8 Nos of 16 amp shock proof electrical plug socket with 8 Nos of 16 amp shock proof electrical plug socket with 8 Nos of 16 amp MCB of BIS mark. The trench should be made from CRCA		motor and starter and it should be fixed outside the		
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16 Furnishing of Food Irradiation Lab (FMD 1 set	16	Furnishing of Food Irradiation Lab (FMD	1 set	
amount Rs 2.500/- for item)	10	amount Rs 2.500/- for item)	1 301	
MS platform should be made of MS fixtures having		MS platform should be made of MS fixtures having		
600 mm L x 550 mm W x 850 mm H with top of iet		600 mm L x 550 mm W x 850 mm H with top of iet		
black granite of desired length x 850 mm W x 17+1		black granite of desired length x 850 mm W x $17+1$		
mm thickness, duly polished and moulded, levelled		mm thickness, duly polished and moulded levelled		

	on 6 mm ply and have SS 304 sink. Workbench		
	should have knockdown type modular under bench		
	steel cabinet having sturdy frame panels legs one		
	drawer (460 mm W x 530 mm L x 100 mm H) two		
	shutters having 450 mm H with lock and shelves		
	fabricated using GMP of scientific laboratory		
	equipment from cold rolled steel sheet (Tata or		
	equipment from cold foned steel sheet (fata of		
	equivalent make) of prime grade having minimum 20		
	guage thickness of CRC pipe of 50 min x 50 min x		
	To guage thickness. The module should be strong analysis to been load of 1000 kg/m^2 and be provided		
	enough to bear load of 1000 kg/m and be provided		
	with strong brackets and stiffners.		
	All metal be epoxy powder coated with minimum 50		
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	ASTM/BS/DIN/IS. All the hardware be BIS grade of		
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	enough to carry about 50 kg load of different articles.		
	The fixtures should be as per drawing shown at Fig.		
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	For any query, the site at College of FPTBE can		
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deposition for better corrosion resistance, Godrej	
make locks, shelf support clips, stainless steel	
handles, etc. The drawer and cabinet should be strong	
enough to carry about 50 kg load of different articles.	
Corner sink unit with SS water taps, two shutters	
duly mounted on separate SS pedestal strong enough	
and made from SS 304 section of minimum 2 mm	
thickness.	
Cable trench- 02 Nos.	
2000 mm length fitted with 10 Nos of 16 amp shock	
proof five point electrical plug socket with 10 Nos of	
16 amp MCB of BIS mark . The trench should be	
made from CRCA sheet of 1 mm thickness and	
shapped as desired and powder coated.	
The fixtures should be as per drawing shown at F.	
For any query the site at College of FPTBE can be	
visited.	



Fig. A Indicative drawing of Sensory Booth Module (2 Nos. as per Sensory Lab Design)



Fig. B Indicative drawing of MS Lab fixture for Sensory lab



Fig. C Indicative drawing of MS Lab fixture for Food Preparation Lab



All the dimensions are in mm

Fig. D Indicative drawing of MS Lab fixture for Food Microstructure Lab



All dimensions are in mm

Fig. E Indicative drawing of MS Lab fixture for Food Irradiation Lab





All dimensions are in mm a) = 1 No. of unit; b) 2 Nos. of unit; c) 1 No. of unit; d) 2 Nos. of unit;

Fig. F Indicative drawing of MS Lab fixture for Electronics and Instrumentation Lab