





TECHNICAL SPECIFICATION


1. The scanned copy of this annexure "H" (original downloaded) duly completed and seal signed by the bidder must be uploaded otherwise bid should not be considered. Any supplementary information may be uploaded separately.
2. The samples where-ever mentioned in specifications must be submitted in this Directorate of Technical, Jodhpur(Education wing) along with physical submission otherwise concerned item will not be considered for technical evaluation.
3. Scanned Copies Items wise Original Literature/Leaflets/Catalogue correct Image as per Tender Specification enclosed, Authorization Certificate of manufacturer prescribed format (Annexure-L) etc. must be enclosed in support of your Make and Specifications otherwise concerned items will not be considered for Technical Evaluation.
4. The delivery period up to 60 days.
5. The Material will be Supplied F.O.R. at Principal Government Polytechnic College, as per order List.
6. Index Page No. 1 & 2 all Document of S. No. 1 to 34(if applicable) and other required document must be enclosed otherwise concerned Tender will not be considered for Technical Evaluation.
7. All the material supplied should be new and no item can be supplied which is refurbished.


S.No.	 Item with Full Specifications	Kota	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
1	Plate Type Heat Exchanger specifications : System : Water to Water Plates : Material Stainless Steel Frame : Rigid MS Structure Water Flow : Using Rotameters (2Nos.) one	1	1	


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	<p>Measurement each for cold & hot fluid.</p> <p>Hot Water Tank : Made of Stainless steel, Double Wall, Insulated with ceramic wool.</p> <p>Hot Water Circulation : Magnetic Pump.</p> <p>Heaters : Nichrome wire heater.</p> <p>Control panel should be comprising of:</p> <p>Digital Temperature Controller : 0-199.9°C, (For Hot Water Tank)</p> <p>Digital Temperature Indicator : 0-199.9°C, with multi-channel switch</p> <p>Temperature sensors: RTD PT-100 type. With Standard make On/Off switch, Mains Indicator etc.</p> <p>A good quality painted rigid MS Structure should be provided to support all the parts.</p>			
2	Shell & Tube Heat Exchanger	1	1	


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	<p>specifications HEAT EXCHANGER: SHELL: Moc :ss Dimension : 120(d)*750(L)mm (approximate) Baffles: 4nps. 25% segmental at an Equal distance Insulation: 25mm thick glass wool With ss sheet cover TUBE: MOC :ss Dimension :10/12(D)φ*750(L)mm Pitch: triangular HOT WATER TANK Inner moc: ss Outer moc : ms with power coating Capacity : 50 liter Heater :3Kw rating Cold water tank Hot water pump Cold water pump Rotameter Temp measurement Control panel</p>			


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3	Heat Transfer through composite wall Specifications Slab Material : Slab Size Cast Iron : 250 mm dia. & 20mm thick. Bakelite : 250 mm dia. & 15 mm thick. Press Wood : 250 mm dia. & 12 mm thick. Heater : Nichrome wire. Control panel should be comprises of Digital Voltmeter : 0-300 Volts. Digital Ammeter : 0-2 Amp. Range : 0-230 V, 2Amp. Digital Temperature Indicator : 0-200° C, with multi-channel switch Temperature Sensors : RTD PT-100 type. With standard make On/off switch, Mains Indicator etc. Cabinet to accommodate the slab assembly with front window of glass/acrylic.	1	1	
4	Distillation Column specifications : Distillation Column : Material Stainless Steel , Dia 110mm,	1	1	


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	<p>seven sieve trays.</p> <p>Pressure Gauge : Bourdon type, 0-2 kg/cm².</p> <p>Rotameter : For cooling water flow rate measurement.</p> <p>Steam Generator : Made of Stainless Steel, provided with Pressure Gauge & Level Indicator, Safety valve & insulated with ceramic wool and cladding with Aluminium foil..</p> <p>Reflux Divider : Special arrangement to change R/D ratio automatically.</p> <p>Condenser Bottom : Shell & Tube type made of Stainless Steel. Ltrs.</p>			


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	<p>Product Tank Made of Stainless Steel, capacity 5</p> <p>Distillate Tank Made of Stainless Steel, capacity 5 Ltrs.</p> <p>Heaters Nichrome wire heater.</p> <p>Temp. Sensors: RTD PT-100 type</p> <p>Control panel should comprises of : Digital Temp. Controller: 0-199.9°C, For Steam Reboiler Digital Temp. Indicator: 0-199.9°C, with multi-channel Switch</p> <p>The whole set-up should be well designed and arranged in a good quality painted structure.</p>			
5	Swenson Walker Crytallizer specifications TROUGH: MOC : SS 316	1	1	

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	<p>Capacity : approximate 8 litres. Jacket :SS with appropriate insulation & SS cladding. Temp sensor : RTD Pt-100 type, 3 nos. Ribbon type scrapper: MOC :SS Motor for ribbon scrapper: Motor rating :025HP RPM : approximate 8-10 RPM Reduction gear box & pulley arrangement. FEED TANK:MOC :SS -316,Capacity : approx. 30 litres Temp sensor : RTDPt-100type with appropriate insulation & SS cladding STIRRER FOR FEED TANK: MOC: SS-316 Motor rating : 0.25 HP FEED CIRCULATION PUMP: Type : magnetic pump MOC :polypropylene Motor rating :FHP CRYSTAL RECEIVER : MOC :SS-316 Capacity :approx. 20 liter With removable sieve WATAR TANK: MOC : SS-316 Capacity :approx. 50 liters</p>			

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	Heater :immersion type , 3KW WATAR PUMP: Type : centrifugal pump, MOC : SS Motor rating : FHP FLOW METER: Type : rotameter Qty .: one for feed & one for cooling water. Control panel should comprises of : Digital Temp. Controller: 0-199.9°C, For Steam Reboiler Digital Temp. Indicator: 0-199.9°C, with multi-channel switch			
6	Multimedia Projector Specifications: Resolution: 1024 x 768 XGA,ANSI Lumen: 3200, Contrast Ratio:10000:1, HDMI x 2 / Wired LAN/ Wireless Option/ USB x 2/ 10K Hrs lamp life	1	1	
7	Roll Crusher Specifications Rolls : Material Chilled Steel Dia. 200mm, Width 100mm. (approx.) 2 HP motor coupled with Drive : Reduction Gear	1	1	

S.No.	 Item with Full Specifications	Kota	Total Qty.	Specify variation in Specification if any, otherwise write "No variation" / as per Specification & write Make & Model
	<p>Box to give 48-70 RPM</p> <p>Feed Hopper : Suitable capacity. Max feed Size : 6-8 mm Product Size : 1-2 mm</p> <p>Control Panel Comprises of : Energy measurement : Electronic energy meter Starter : 2 HP , single phase MCB : For overload protection</p> <p>The set-up should be fitted with required guards and product collection tray.</p>			
8	<p>PLATE & FRAME FILTER PRESS</p> <p>Specifications No. of frame : 6 No. of Plates : 7 Size : 200 mm x 200 mm. Material : Acrylic Screw Jack arrangement for tightening and removing of frames easily. Filter Medium : Filter Cloth</p>	1	1	

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	Filtrate collection tray : Material Stainless Steel, Suitable size. Slurry Feed tank : Material Stainless Steel, Capacity 40 Ltrs. Slurry Tank Agitator :Stainless Steel Impeller with SS Shaft coupled to FHP Motor and Reduction Gear Box Slurry Feed Pump : Gear Pump with FHP motor. Piping system : GI and PVC. Filtration rate measurement : Using measuring tank. Material Stainless Steel Pressure Measurement : Bourdon type pressure gauge. Overhead water tank : Material Stainless Steel , Capacity 25 Ltrs. Control panel must be Comprises of Standard make On/Off switch, Mains Indicator etc. A good quality painted rigid MS Structure must be provided to support all the parts.			
9	Bucket Conveyor Specifications: Buckets : Material Steel. Belt : Nylon./Synthetic Drive : 1 HP motor coupled to Reduction Gear Box. Feed Hopper : Suitable capacity with feed control arrangement. Control Panel must be Comprises of : Standard make on/off switch, Mains Indicator etc.	1	1	
10	Ball Mill Specifications: Ball Mill : Material MS Dia 275mm, Length 350mm. Thickness 5 mm.	1	1	

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	<p>Eccentric shaft coupled to motor compatible with arrangement to control feed.</p> <p>Drive Feed Hopper Collecting bins : 4 Nos. of suitable capacity.</p> <p>Control panel Comprises of: Standard make On/Off switch, Mains Indicator etc. A good quality painted rigid MS Structure is provided to support all the parts.</p>			

Terms & Condition :-

1. F. O. R. Principal Government Polytechnic College, Kota
2. Delivery up to 60 days
3. GST Extra -----%

Signature of bidder with seal

DIRECTOR, TECHNICAL EDUCATION