

**SPECIFICATIONS OF ITEMS**

Sr. No.	Name of Item	Product Name & Specification of Items	Appr. Qty.	EMD	Unit Rate	Total Amount
<b>[A] Class Room Furniture (Godrej Make only)</b>						
1	<b>Double Seater Class Room Chair cum Desk with storage unit</b>	<p><b>Merit</b>            Dimension(mm) : 1200*1051*725.5,            Desk : 12mm Thick(±1mm), Base Material - 10.4mm Bent ply, 0.8mm thick DL on top, 0.8mm thick backing laminate on bottom surface  <b>Storage under desk:</b> Fabricated structure in Ø5mm rod with powder coat finish  <b>Storage under seat</b> :Fabricated Structure in Ø16mm X 2mm thick tube with Ø5mm rod with powder coat finish  <b>Under structure</b> : Made from Ø25.4mm x 2mm thick tube with powder coat finish. Capand stud in Nylon-6 S13 PT grade are mounted on the open end at bottom side of the structure. For seat mounting 50.8mmX25.4mmX2mm thick tube fabricated with Ø16mmx2mmthk tube with powder coating.  <b>Seat shell</b> : Plastic moulded seat shell in PP are mounted on the under structure</p>	125	37500		
<b>[B] Laboratory Furniture (Godrej Make only)</b>						
1	<b>Chemistry Lab Furniture</b>	<p><b>Storage Unit with Cam lock</b> : 750 mm Depth, 900Ht(RECESS /SS handle) With Metal Shutter and Drawers  <b>MF7-900-2S-9H</b>  <b>AF7-900-2S-9H</b>  <b>AF7-MSU-900-2S-9H</b>  <b>Three Way Water Tap</b>  <b>Cover Panel:</b> Back Cover Panel for 750 Depth            Back Cover Panel - 1200W  <b>Double Sided Reagent Shelf:</b> 2-tier, 300mm Depth (660mm Ht.)M-RS-D-900 With 1 cutout for 6 module plate ,A-RS-D-900 With 1 cutout for 6 module plate  <b>Understructure Table:</b> 750D, 900H ,            1200L ( Main Module ),            1200L ( Addon Module )  <b>Work Surface:</b> Jet Black Granite (Sq.mt.): 20 (±2) mm thick.            Neoprene Strip (Running Meter):2.5" wide &amp; 6 mm thick            SR-998 Glue for Neoprene Mat. (Litres)  <b>Chemical Storage Cabinets:</b> MS Chemical Storage Cabinet :            1000 x 486 x 1800mm</p>	15 15 15 06 06 8 8 17 59 02 02	12000		

2	Physics Lab Furniture	<b>Cover Panel:</b> Back Cover Panel for 750 Depth , 1200W <b>Understructure Table : 750D, 900H</b> 1200L ( Main Module ) 1200L ( Addon Module ) 6 Module Plate Model No: CS956M-S 16A, 1 way Switch Model No: M0130 6/16A, 6 pin shutter Socket Model No: M1332 <b>Work Surface:</b> Jet Black Granite (Sq.mt.) 20 (±2) mm thick. Neoprene Strip (Running Meter) (2.5" wide & 6 mm thick) SR-998 Glue for Neoprene Mat. (Litres)	16 8 8 30 60 60 17 60 02	3000		
3	Laboratory Stool with foot rest & back rest	<b>Stool:</b> <b>SEAT ASSEMBLY:</b> The seat is made up of 1.2 cm thick Commercial Grade plywood with moulded Polyurethane foam and are pholstered with replaceable fabric covers. The upholstery is available in Leather cloth and Fabric. SEAT SIZE: Diameter 40.0 cm ADJUSTMENTS: 360 Degree Revolving type <b>BACK ASSEMBLY</b> (available with S1M4HC / S1M4NC model): The back foam is designed with contoured Lumbar support for extra comfort. The upholstery is available in Leather cloth and Fabric. BACK SIZE: 45.0 cm (W) covered with U foam. <b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m <sup>3</sup> and Hardness 20 +/- 2 on Hampden machine at 25% compression. <b>PEDESTAL ASSEMBLY (FOR S1MXHC/ S1M4HC):</b> The five-prong pedestal is fabricated from 0.2cm. thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors. <b>PEDESTAL ASSEMBLY (FOR S1MXNC/ S1M4NC):</b> The five-prong pedestal is fabricated from 0.2cm. Thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel	200	24750		
4	Laboratory Stool with foot rest & without back rest	<b>SEAT ASSEMBLY:</b> The seat is made up of 1.2 cm thick Commercial Grade plywood with moulded Polyurethane foam and is upholstered with replaceable fabric covers. The upholstery is available in Leather cloth and Fabric. SEAT SIZE: Diameter 40.0 cm ADJUSTMENTS: 360 Degree Revolving type <b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m <sup>3</sup> and Hardness 20 +/- 2 on Hampden machine at 25% compression. <b>PEDESTAL ASSEMBLY (FOR S1MXHC/ S1M4HC):</b> The five-prong pedestal is fabricated from 0.2cm. thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors. <b>PEDESTAL ASSEMBLY (FOR S1MXNC/ S1M4NC):</b> The five-prong pedestal is fabricated from 0.2cm. Thick CR steel, powder coated and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel	130			
5	Storage Cupboards for Laboratory	<b>Models:</b> Plain <b>Product Size:</b> Plain (4S):900 mm (W) x 450 mm (D) x 1830 mm (H) <b>Construction &amp; Material:</b> Prime Quality CRCA Steel - Panels from 0.6 mm thick & Front frame 0.8 mm thick.	10	4500		

		<p><b>Configuration(Door):</b> Full Height steel hinged door</p> <p><b>Locking &amp; handle :</b> Plastic Recessed Handle cum Cam Lock 3 way locking mechanism with shooting bolt arrangement</p> <p><b>Shelving :</b> • Height wise Adjustable Shelf Mounting</p> <ul style="list-style-type: none"> <li>• Plain 4S : 4 Nos. of Adjustable Full Shelves</li> <li>Plain 3S : 3 Nos. of Adjustable Full Shelves</li> <li>Minor : 2 Nos. of Adjustable Full Shelves</li> <li>• Partition : <ul style="list-style-type: none"> <li>• Top fixed full shelf</li> <li>• Adjustable Half shelf – 4 nos. on LH side of vertical partition.</li> </ul> </li> </ul> <p><b>Finish:</b> Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10).</p>				
6	Table for faculties in the Laboratory	<p><b>Enzo Table:</b></p> <p><b>Model 5025:</b> Desk with one drawer (RHS) &amp; HDU attachment on one side &amp; 3 drawer unit on the other side (LHS of user) Size 1500 x 750 x 750mm</p> <p><b>Material:</b> Pre laminated Particle Board with 18mm thick table top and 15mm thick understructure covered with PVC Lapping</p> <p><b>Locking:</b> Locking facility available for top draswer/s only.</p>	20			
7	Chair for faculties in the Laboratory	<p><b>DIVA CHAIR 7046R</b></p> <p><b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam together with seat and back covers. The back foam is designed with contoured lumbar support for extra comfort.</p> <p>SEAT SIZE: 45.0cm. (W) X 42.0cm. (D)</p> <p>BACK SIZE: 39.0cm. (W) X 47.0cm. (H)</p> <p><b>SEAT / BACK COVERS:</b> The seat and back covers are injection moulded in black Co-polymer Polypropylene</p> <p><b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 on Hampden machine at 25% compression</p> <p><b>PERMANENT CONTACT MECHANISM:</b> The permanent contact mechanism is designed with the following features: 360° revolving type. , 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment</p> <p><b>PNEUMATIC HEIGHT ADJUSTMENT:</b> The pneumatic height adjustment has an adjustment stroke of 9.0 cm</p> <p><b>TELESCOPIC BELLOW ASSEMBLY:</b>The bellow is 3 piece telescopic type and injection moulded in black Polypropylene.</p> <p><b>PEDESTAL ASSEMBLY:</b> The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0cm.). The pedestal is 57.0 cm. pitch-centre dia. (67.0 cm with castors).</p>	20	9000		
8	Centre Laboratory Table	<p><b>INSIGHT TABLE</b></p> <p><b>Dimension 800*900*740</b></p> <p><b>Worktop :</b> 25 mm Thick PLB Tops with 2mm Thick PVC Edge Beading</p> <p><b>Understructure:</b> C – Frames :</p> <p>1.6 mm thick M.S C Frame Supporting the Top with .</p> <p>Legs: Dia. 38.1 x 1.6 mm thick M.S ERW tube</p>	32	18000		
9	Computer Table for Computer Laboratory	<p><b>Reflex</b></p> <p>(a) Work top Size 900 x 600 (overall 2700 x 600) shall be made of 25mm thick Plain Particle board interior grade conforming to IS: 3087:1985. The top shall be Pre laminated with laminate of 1 mm thickness of approved shade as per ISO:2046-1995 and glue of PVAC .The front edge of work surface shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue. The Top Shall be supported on Legs &amp; Leg frame is made up of Mild Steel (M.S.) E. R. W tubes.- Semicircular cross section of 30 x 60 &amp; Formed MS leg base with bottom 'C' channel (curved 1.5mm thick powder</p>	05	10500		

		<p>coated) Rectangular cross section of 30 x 20. Wire Carrier below the Top are made up of two 'C' sections back to back spot welded, made up of CRCA 'D' grade 1.6mm thick. M.S. as per IS: 513-1994, pretreated, finally powder coated with epoxy powder coating. These are fastened together with telescopic piece on spring washer and M.S. screws to get variety in length.</p> <p>Key Board Pull out tray – Plastic CPU Trolley</p> <p>(b) Work top Size 600 x 600 all other specifications are as above</p>	04			
10	Chair for Computer Laboratory:	<p><b>DIVA CHAIR 7046R</b></p> <p><b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam together with seat and back covers. The back foam is designed with contoured lumbar support for extra comfort.</p> <p>SEAT SIZE: 45.0cm. (W) X 42.0cm. (D) BACK SIZE: 39.0cm. (W) X 47.0cm. (H)</p> <p><b>SEAT / BACK COVERS:</b> The seat and back covers are injection moulded in black Co-polymer Polypropylene</p> <p><b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 on Hampden machine at 25% compression</p> <p><b>PERMANENT CONTACT MECHANISM:</b> The permanent contact mechanism is designed with the following features: 360° revolving type. , 14° maximum back-tilt only, Upright position locking, Tilt tension adjustment</p> <p><b>PNEUMATIC HEIGHT ADJUSTMENT:</b> The pneumatic height adjustment has an adjustment stroke of 9.0 cm</p> <p><b>TELESCOPIC BELLOW ASSEMBLY:</b> The bellow is 3 piece telescopic type and injection moulded in black Polypropylene.</p> <p><b>PEDESTAL ASSEMBLY:</b> The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors (castor wheel dia. 5.0cm.). The pedestal is 57.0 cm. pitch-centre dia. (67.0 cm with castors).</p>	30			
<b>[C] Committee Room Furniture (Godrej Make only)</b>						
1	Centre Conference Table:	<p><b>TALK</b> <b>(14 Seater Laminate Top Modular –Dimension(mm)</b> <b>4200*1200*750)</b></p> <p><b>Work Surface Laminate:</b>25mm Thick (±1mm) Base material – 25mm Plain particle board Post laminated work surface with 0.6mm laminate on Top and 0.6mm laminate on bottom 2mm thick PVC edge banding on straight edges</p> <p><b>Squeeze Leg Assembly:</b> Nickel chrome plated Squeeze Leg made from Dia50.8 x 1.6mm thick MS ERW tube.</p> <p><b>Cross member and Connectors:</b> Powder coated cross member made from 1.5mm thick Aluminum extrusion fixed with work - surface by plastic moulded Table support connector.</p> <p><b>Laminate Modesty :</b> 18mm Thick (±1mm) Base material 16mm Plain particle board Post laminated with 0.6mm Top laminate on either side 2mm thick PVC edge banding.</p> <p><b>Metal perforated Modesty :</b> 18mm Thick (±1mm) Powder coated metal perforated modesty with stiffener made from 0.8mm thick MS sheet</p> <p><b>Access Flap and Switch Mounting Tray:</b> Made from Matt silver Anodized Aluminum extrusion and plastic moulded components to facilitate access of Electrical/Data/Voice sockets access from Top</p> <p><b>Vertigo (Rehau Make):</b> Fixed to work surface from bottom</p>	01	1800		

		side for entering wires				
2	Revolving Chair	<p><b>BRAVO CHAIRS (PCH-9U02RX, PCH-9U12RX):</b>  <b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot-pressed plywood, upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam is designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. <b>MID BACK SIZE (FOR 9U02RX, 9U12RX):</b> 47.5 cm. (W) x 58.0cm. (H) <b>SEAT SIZE (FOR 9U02RX, 9U12RX):</b> 47.0 cm. (W) x 48.0 cm. (D)  <b>POLYURETHANE FOAM:</b> The Polyurethane foam is moulded with density = 45 +/-2 kg/m3 and Hardness = 20 +/- 2 at 25% compression.  <b>CENTER TILT SYNCHRO MECHANISM (FOR 9U02RX):</b> The mechanism is designed with the following features: • 360 revolving type. • Upright position locking. • Tilt tension adjustment. • Seat/back tilting ratio of 1:3 (6 seat tilt/18 back tilt)  <b>TUBULAR FRAME (FOR 9U12RX):</b> The powder coated tubular frame is cantilever type &amp; made of dia 25.4mm x 2mm thick M.S. ER.W. Tube  <b>PNEUMATIC HEIGHT ADJUSTMENT (FOR 9U02RX):</b> The pneumatic height adjustment has an adjustment stroke of 12.0 cm.  <b>PEDESTAL ASSEMBLY (FOR 9U02RX):</b> The pedestal is injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal is 66.0cm pitch-center dia. (76.0 cm with castors.)</p>	14	2100		
3	Chair with Armrest	<p><b>DIVA CHAIR (7044T):</b>  <b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam together with seat and back covers. The back foam is designed with contoured lumbar support for extra comfort.  <b>SEAT SIZE:</b> 45.0cm. (W) X 42.0cm. (D)  <b>BACK SIZE:</b> 39.0cm. (W) X 47.0cm. (H)  <b>SEAT / BACK COVERS:</b> The seat and back covers are injection moulded in black Co-polymer Polypropylene  <b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 on Hampden machine at 25% compression  <b>ARMREST ASSEMBLY: T - TYPE ASSEMBLY:</b> The armrests are made of black integral skin polyurethane with 50-70 Shore 'A' Hardness and reinforced with M.S. inser <b>FIXED TYPE MECHANISM:</b> The fixed type mechanism is 3600 revolving type without back tilt.  <b>TUBULAR FRAME:</b> The frame is made up of Dia. 2.54 cm. (1") X 14 bg. M.S. E.R.W. tube which is black powder coated.</p>	14	2520		
<b>[D] Seminar Hall Furniture (Godrej Make only)</b>						
1	Double seater Table	<p><b>Unlearn Table</b>  <b>2 seater laptop Dimension(mm) 1350*600*680</b>  <b>Work-Surface:</b> Base Material - 25mm Thick Pre-laminated particle board  <b>Modesty:</b> 18mm Thick (±1mm)  Base material - 16mm Plain particle board  Post-laminated with 0.6mm Top laminate on either side  <b>Legs:</b> The Base support plate is having provision for wire entry and glide fixing  <b>Switch Mounting Tray:</b> Powder coated switch mounting tray made from 0.8mm and 2mm thick MS sheet fitted on modesty through which cables can be passed</p>	32	22500		
2	Chair with Armrest	<b>DIVA CHAIR (7044T):</b>	64			

		<p><b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam together with seat and back covers. The back foam is designed with contoured lumbar support for extra comfort.</p> <p>SEAT SIZE: 45.0cm. (W) X 42.0cm. (D) BACK SIZE: 39.0cm. (W) X 47.0cm. (H)</p> <p><b>SEAT / BACK COVERS:</b> The seat and back covers are injection moulded in black Co-polymer Polypropylene</p> <p><b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 on Hampden machine at 25% compression</p> <p><b>ARMREST ASSEMBLY: T - TYPE ASSEMBLY:</b> The armrests are made of black integral skin polyurethane with 50-70 Shore 'A' Hardness and reinforced with M.S. inser FIXED TYPE</p> <p><b>MECHANISM:</b> The fixed type mechanism is 3600 revolving type without back tilt.</p> <p><b>TUBULAR FRAME:</b> The frame is made up of Dia. 2.54 cm. (1") X 14 bg. M.S. E.R.W. tube which is black powder coated.</p>				
3	Revolving Chair	<p><b>Premium Executive Chair</b> <b>Model No. PCH 7000</b> Dimensions: (W): 75.0 cm, (D): 75.0 cm, (H): 120.5 – 133.0 cm, Seat Height: 44.0 – 56.5 cm</p>	07			
<b>[E] Library Furniture (Godrej Make only)</b>						
1	Reading Table	<p><b>Reflex</b> Work top Size 900 x 600 (overall 2700 x 1200) shall be made of 25mm thick Plain Particle board interior grade conforming to IS: 3087:1985. The top shall be Pre laminated with laminate of 1 mm thickness of approved shade as per IS:2046-1995 and glue of PVAC .The front edge of work surface shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue. The Top Shall be supported on Legs &amp; Leg frame is made up of Mild Steel (M.S.) E. R. W tubes.- Semicircular cross section of 30 x 60 &amp; Formed MS leg base with bottom 'C' channel (curved 1.5mm thk powder coated) Rectangular cross section of 30 x 20. Wire Carrier below the Top is made up of two'C' sections back to back spot welded, made up of CRCA 'D' grade 1.6mm thick. M.S. as per IS: 513-1994, pretreated, finally powder coated with epoxy powder coating. These are fastened together with telescopic piece on spring washer and M.S. screws to get variety in length. Magnetic Screen above the top between 2 users with consists of 25mm thick PPB with 0.6mm thick M.S sheet or G.I sheet stuck on PPB surface with Solvent Based Contact Adhesive, with a groove on the edge for tucking in the fabric (of required colour &amp; thickness from 0.8 to 1mm) with the help of pvc T moulding to give clean edge.</p>	04	6330		
2	Chair with Armrest	<p><b>DIVA CHAIR (7044T):</b> <b>SEAT/BACK ASSEMBLY:</b> The seat and back are made up of 1.2 cm. thick hot pressed plywood upholstered with fabric and moulded Polyurethane foam together with seat and back covers. The back foam is designed with contoured lumbar support for extra comfort.</p> <p>SEAT SIZE: 45.0cm. (W) X 42.0cm. (D) BACK SIZE: 39.0cm. (W) X 47.0cm. (H)</p> <p><b>SEAT / BACK COVERS:</b> The seat and back covers are injection moulded in black Co-polymer Polypropylene</p> <p><b>POLYURETHANE FOAM:</b> The polyurethane foam is moulded with density = 45 +/-2 kg/m and Hardness = 20 +/- 2 on Hampden machine at 25% compression</p> <p><b>ARMREST ASSEMBLY: T - TYPE ASSEMBLY:</b> The armrests are made of black integral skin polyurethane with 50-70 Shore 'A' Hardness and reinforced with M.S. inser FIXED TYPE</p> <p><b>MECHANISM:</b> The fixed type mechanism is 3600 revolving</p>	26			

		<p>type without back tilt.</p> <p><b>TUBULAR FRAME:</b> The frame is made up of Dia. 2.54 cm. (1") X 14 bg. M.S. E.R.W. tube which is black powder coated.</p>			
<b>[F] Furniture for Reception and Principal and Dean Office(Godrej Make only)</b>					
1	Desk, Extended return unit ERU, Back Unit & Tower	<p><b>JEFFERSON – THE PRESIDENTIAL SUITE</b></p> <p><b>A. Desk (LHS &amp; RHS) :</b></p> <p><b>Work Surface:</b> 40mm thick (18mm MDF +18mm MDF batons + 4mm Natural Veneer)Veneered portion of work surface is finished with high gloss polyester.</p> <p><b>Legs :</b> Made form 1.6mm thick MS clad withstrips of MDF. Hollow construction of legs facilitates wire management.</p> <p><b>Modesty &amp; Side Panel:</b> 18mm thick MDF, pigmented black and coated with melamine.</p> <p><b>Drawer Unit:</b> Unit Body constructed form 18mm thick MDF boards has combination of 2 box drawers + 1 Filing drawer. Drawers are mounted on double extension Ball Slides. Drawer fronts are of Natural Veneer coated with High gloss Polyester and made of 23mm (18mm MDF+4mm Natural Veneer+1mm DL) and drawer body made of 14mm MDF (12mm MDF+1mm DL +1mm DL)</p> <p><b>B. Extended return unit ERU:</b></p> <p><b>Work surface:</b> 40mm thick (18mm MDF + 18mm MDF batons + 4mm Natural Veneer) Veneered portion of work surface is finished with high gloss polyester.</p> <p><b>Modesty Panel:</b> 18mm thick MDF Pigmented Black and coated with melamine.</p> <p><b>Drawer Unit:</b> Unit Constructed form 18mm thick MDF boards has combination of 2 box drawers + 1 Filing drawer. Drawers are mounted on double extension Ball Slides. Drawer fronts are of Natural Veneer coated with High gloss Polyester and made of 23mm (18mm MDF+4mm Natural Veneer+1mm DL) and drawer body made of 14mm MDF (12mm MDF+1mm DL+1mm DL)</p> <p><b>C. Back Unit &amp; Tower:</b></p> <p><b>Door:</b> 23mm thick (18mm thick MDF Batons + 4mm Veneer + 1mm Backing Decorated Laminate (BDL)</p> <p><b>Shelves and Partitions:</b> 18mm thick MDF, pigmented Black and coated with melamine.</p> <p><b>Panels:</b> 18mm thick MDF pigmented Black.</p> <p><b>Glass:</b> 12mm thick Float glass, edges diamond cut polished.</p>	1	1	7500
2	Reception Table	<p><b>First Impression:</b></p> <p><b>Rubber Wood Top:</b> Clean matt PU finish 18mm thick Inside radius 700.0mm Outside radius – 1350.0 mm Depth – 650 mm</p> <p><b>Cork:</b> Rubberized cork – 18mm thick</p> <p><b>Glass:</b> Frosted Glass 10mm thick Diamond cut finishing on edges Inside Radius – 1202.5mm , Outside radius – 1402.5mm, Depth – 200mm</p> <p><b>Modesty Panel:</b> MS Perforated sheet</p> <p><b>Below Work surface :</b> 0.8 mm (thick) x 665.0 mm (height) x 1345.0 mm (flat length)</p> <p><b>Above Work surface :</b> 0.8mm (Thick) x 260 mm (height) x 1345.0 mm (flat length)</p> <p><b>Legs :</b> MS tube 1.6 mm thick, Diameter 50.8 mm, Height 604 mm</p> <p>*Note: Angle sustained within arc surface is 60 deg.</p>	1		
<b>FMP Department including workshop</b>					

1	<b>Standard branded woodworking lathe</b>	Length of bed -6' , height of centre -8" , width of bed -8" , admit between centre -42" , No. of spindle speed -3 , face chuck dia-10" , R.P.M. -3000, motor-1hp	01	1800		
2	<b>Standard branded Universal Milling Machine</b>	Universal type, table overall size-1340 x 250 mm, clamping area-975 x 250 mm, long travel power/manual-600 / 700, cross / vertical traverse-250/400, spindle nose-ISO 40, speed / range-12/35-1500, feed /range long. & cross 09/20/00,feed/ range vertical-09/10/00, rapid - long ./cross-1000,rapid-vertical-500,motor hp - spindle/feed- 3/2 hp Note: Only those manufacturers are eligible to bid whose firm is registered with DGS&D/NSIC and they have to submit the photocopy of registration certificate.	01	8250		
3	<b>Advanced Universal Testing Machine with computer and all higher end accessories like brinell hardness testing.</b>	Max capacity - 200kn,1st measuring range -0-200kn, resolution -0.4, 2nd measuring range -0-100kn, resolution - 0.2, 3rd measuring range -0-50kn, resolution -0.1, 4th measuring range -0-20kn, resolution -0.04, max clearance for tensile test -50 - 700 mm, max. Clearance for compression test -0 - 700 mm, clearance between columns-500mm, ram stroke -200mm, straining/piston speed at load -0 - 150 mm/min, electric motor -1kw, 3 ph. 440 volts 50 hz <b>Standard accessories :</b> a. For tension test: clamping jaws for round specimens dia. - 10-20mm,20 – 30mm, clamping jaws for flat specimens thickness-0-10mm, 10 -2 0mm, width-50mm, for compression pair of compression plates of diameter - 120mm, test : -,for transverse test: table with the adjustable rollers, width of rollers -160mm, diameter of rollers-30mm, max. clearance between supports - 500mm, radius of punch tops -6,12 mm b. Computerized brinell hardness testing instrument c. Other attachments required to perform all possible test on this machine like bend test fixture, electronic extensometer, grips and inserts, pull out test fixture, machine should support tensile, compression, bending tests etc with windows based software for displaying and analyzing test results	01	12000		
4	<b>Standard branded CNC lathe trainer with all accessories like ( to run the machine on designed parameter), lap top, Printer-Scanner (A4)</b>	With Suitable software from modeling to NC program generation & simulation, Machine details: center height: 100mm, spindle taper:mt3, swing over carriage: 80mm, distance between center: 300 mm, longitudinal travel : 310 mm, weight : 500 kg approx., height : 1400 mm, rapid travel: 1500 mm/min, resolution: 1 micron, computer: laptop with high end configuration like core 2 duo processor(2.5Ghz), 4 GB ram, 500 GB hard disk, graphic card,16" monitor and other usual configuration needed for design station, automatic lubrication, spindle speed : a. C drive with variable speed, speed range 50 to 3000 rpm, motor power 2 hp, equipped with emergency stop and other safety function, accessories; eight station indexing turret, A-3 size printer and scanner.	01	24000		
5	<b>Wooden tables for carpentry and fitting shop (painted)</b>	Babool wood tables for fitting and carpentry shop size: 3 x 6 feet, height: 4.0 feet, table top: babool wood 80 mm(Smooth finish), six leg (80*80 rectangular) with sufficient stiffener for strength	04	2400		
6	<b>Standard branded Furnaces</b>	Induction furnace- Capacity-1-2 kg/hr, Input Voltage - AC380V+/15%, Max temp- 1200 <sup>0</sup> C, It should have Water chilling system	04	9000		
7	<b>Standard branded Power hacksaw with filing facility</b>	A v-belt-driven pump, supplies coolant to the saw blade through a pipe and tape, superior quality hydraulic (special mystical) washers ensure longer machine life. Filing stroke length: 0 -120mm, depth to centre table: 230mm, size of material max.: 80mm, r.p.m:1500, table size: 400mm x 400mm, a fully enclosed coolant tank is fitted in the base	01	750		
8	<b>Standard branded Shearing Machine</b>	Shear size-18", length of bed-21 ½", width of bed-10", shear m.s Sheets upto-20 SWG, length of cut in one-1.8", size of blades-18 ½"	01	750		



9	Standard branded Drilling Machine	Drilling capacity: 40mm (steel), drilling table: 625 mm dia, spindle speed: 60 to 3000 rpm, no. of speed: 8	01	750		
10	Standard branded Bench Grinder	High speed grinder 16000 rpm, single phase motor with 20 no. grinder wheel	01	150		
11	Standard branded Fitting & Carpentry vice	<b>a. Carpentry Vice-</b> high carbon steel , precious cast body with coating finish ,7"x 9" quick release, front dog heavy duty 12 kg approx. <b>b. Fitting Vice-</b> fitter bench vice (6 x 150) no. X mm heavy duty double rib wt. 25 kg approx.	12 13	1500		
12	Standard branded Anvil	Cast iron anvil with size weight 100kg, with two hardie holes, clip pulling slots, pie chilling slots.	02	600		
13	Standard branded Swage block	Cast iron swage block with cast iron stand, swage block 300*300*100 mm, stand : cast iron whose size suit to above mentioned swage block with min height of 3'	02	600		
14	Standard branded Power Press	20 T capacity with cutting & moulding die, pneumatically operated, One set of die, One cutting die	01	6000		
15	Standard branded Slotting machine	Stroke-200 mm, rotary table-350 mm, longitudinal movement-250 mm, cross movement-200 mm, cutting speed- ram strokes per minute-60-90, ram adjustment-200 mm, throat depth-200 mm, h. P. Required-1 h p, distance from the tool to the main column-300 mm, weight app.-1000 kg	01	3000		
16	Miscellaneous items(Sheet bending machine, wood cutter with multiple operations, Spray painting unit with compressor)	<b>a. Sheet bending machine</b> -Max length of sheet bending-1800 mm, max bending cap -18 swg, clears distance between housing- 1000 mm, bending punch 1*b*h-1800*12*125, bending die -1800*50*100, punch holding device h*1-1500*50*100, column housing h*1-750*600 mm, attachment- needful attachment to perform rolling operation of said sheet on same machine <b>b. Wood cutter with multiple operation planing, grinding etc-</b> Thicknesser -Thicknessing width -285 mm, thicknessing height -100 mm, planer jointer planing width - 300 mm, max. Rebate size - 10 mm, moulding attachment table travel vertical -125 mm, table travel lateral -100 mm, circular saw max. dia -300 mm, saw bore-20 mm, boring machine & mortising attachment table travel vertical-125 mm, table travel parallel-100 mm, wood lathe centre height -125 mm, admit between center - 600 mm, emery grinder emery wheel size -150x15x19 mm, emery wheel speed - 1700 & 3000 rpm, disc sander disc dia -240 rpm, disc speed -1700 & 3000 rpm, belt sander length of belt - 1100 mm, width of belt-100 mm <b>C. Spray painting unit with compressor-</b> gravity feed painting / spray gun 250 ml. painting booth-three side covered, attachment for hanging painted parts, air compressor- 1 hp capacity, holding hangers set, exhaust fan with required accessories	01  01  01	2700		
17	Standard branded TIG, MIG .arc welding machine	<b>a. Standard branded MIG welding machine</b> Input Voltage - AC380V+/15%, Rated Input Currant- 20-25 AM, Output Current Range - 50-350AM, Rated Output Voltage - 35-30V, Duty Cycle (%) -60, Efficiency-80-85%, Wire Feeding speed – above 2.5 m/min, Applicable Plate Thickness - Above 0.6 mm. It should have Quick response, high quality and stable performances, Digital display of welding current and voltages, easy and convenient to use, Self adjustment of welding currents within 30mm if stretching length, Suitable	01	7500		

		for changing welding positions, Stable welding process, high resistance to power fluctuation (310-450V). <b>b. Standard branded TIG Welding machine-</b> Input Voltage – AC380V+/15%, Rated Input Current- 10-15 AM, Output Current Range - 20-350AM, Rated Output Voltage - 20-30V, Frequency -50/60 Hz, Duty Cycle (%)-60, Efficiency -80-85%. It should have clear and reliable digital display of welding current, Protection against over-voltage and over-current, Advanced inverter technology, Suitable for TIG and MMA operations and suitable for welding metals such as stainless steel, carbon steel and copper.	01			
18	Standard branded Moulding Machine	pneumatic type, Jolt capacity 250-300 Kgs, squeeze Force upto 5000 kgs, Pattern drawn 175-225 mm, size of mould box 350- 700 x 275-600 mm	01	8250		
19	Miscellaneous items(Solid fuel forge, sand muller, trolley & other alike items)	<b>a. Trolley-</b> That can be used mainly for transporting sand/ waste material / spillages in foundry. Double wheels, wheels should be made up of ms. <b>b. Solid fuel forge(hearth for conducting black smithy practical)-</b> metallic 1 meter square fire pan at about 1.5 feet height with galvanized hood & chimney, having inbuilt 230 v single phase fan assembly(blower) with fan mounting plate, the body of fire pan should be insulated or made up of heat resisting material, the unit should able to heat the m.s/steel bar (10-30mm) upto red hot condition using coal as a fuel. <b>c. Sand muller-</b> 5-10kg	01 02 01	6000		
20	Welding table, tool displaying cupboard& other alike items	<b>a. Welding table-</b> Metal top 1.6mm sheet metal (832x1195mm) Legs -40x40x3mm box section, 4 castor wheels, metal mesh shelf underneath, angle iron for the underside of the table <b>b. Tool displaying cupboard-</b> Steel (galvanized sheet metal 20 SWG) vertical storage cabinet (4*2*6 feet, 6 legs) with adjustable five horizontal shelves that can store heavy tools with two vertical partitions in first three horizontal shelves along with door lock.	01 04	3000		
21	Self propelled vertical conveyer reaper	Width: 1.5 m; Diesel engine (Power 5 hp); Working capacity 0.5 to 0.65 acre/hour; 3 conveyer belt; with seating attachment; extra attachments included.	1	3300		
22	Mini tractor mounted with reaper	Mini tractor mounted reaper along-with all accessories viz. hood, protection guard, jack, grease gun etc., 11-12 hp; Working capacity 1.25 to 1.50 acre/hour; extra attachments included. Suitable for harvesting of wheat, paddy, forage crops etc.	1	9600		
23	Tractor front mounted vertical conveyer reaper	Tractor front mounted suitable for 35 hp tractor	1	1950		
24	Zero till drill	Operating width (mm) : 1800-2200 No. of rows : 9-11 Row to row spacing : Adjustable Depth of sowing : Adjustable Furrow openers : Inverted T type Separate seed & fertilizer hoppers	1	1500		
25	Strip till drill	Operating width (mm) : 1800-2200 No. of rows : 6, 9 Row to row spacing : Adjustable Depth of sowing : Adjustable Separate seed & fertilizer hoppers	1	2400		
26	Raised bed planter	Working width (mm) : 1800-2200 No. of raised bed : 2 Separate seed and fertilizer metering and hoppers	1	1800		
27	Tractor drawn Maize Planter	3-5 rows with separate planting device for each row, fertilizing unit, row spacing adjustable according to requirement	1	1200		

28	<b>Cotton Picker – manually operated</b>	To pick cotton from cotton-balls of cotton plants in the field	1	300		
29	<b>Digital type Oxylog</b>	To find out oxygen consumption Probe: Membrane covered galvanic cell, self-polarizing, with temperature sensor. Operating temp. : 0 to +40°C, Standard cable length 10-20 m Measuring range: 0-200% sat., 0 - 40°C Resolution: 0.1 %, 0.2°C Displays: 2x LCD display Data Capacity: 2 x 7500-30000 readings in non-volatile memory.	1	3000		
30	<b>Digital type Heart Rate Monitor</b>	Heart Rate Monitor: 30-250 Beats Per Minute Heart Rate Accuracy: + or - 3 BPM Clock: 12 Hour (Hr:Min:Sec) Ambient Temp: 32°F to 122°F Storage Temp: -4°F to 140°F	1	1500		
31	<b>Computerized (electronic) tread mill</b>	With varying speed control of Belt Speed : 0~16Km (Opt 20Km) Motor : 3 HP AC motor Walking Area : 500mm x 1500mm User Capacity : 180 Kg. Power Dedicated : 230V, 50 Hz 15A, 10 Floor Space : 1945mm x 782mm (77" x 31")	1	1500		
32	<b>Anthropometer</b>	To measure various body dimension. Constructed mainly of light alloy anodised to its natural colour. Its sliding member operates via miniature ball-bearing rollers in order to ensure a movement which is free yet without cross-play. Supplied in a well made carrying case, complete with straight and recurved branches, a spare counter and beam extensions for the measuring of heights of up to two metres	1	1500		
33	<b>Tool kit for Black-smithy shop *</b>	Shovel, Rake, Assorted Standard Tongs, Top (rodded) & Bottom Swage ,Top Fuller, 1.1/2" Square Flat Set Hammer-rodded, 2.1/2" Square Flat Flatter- rodded, Regular hardies, Hot & Cold Set - rodded, Chisels ( Flat cut, Cross cut, Half round) ,Round & Square Punches - rodded, Taper drifts, Sledge hammer ( 6 kg, 12 kg) ,Hammers ( Ball pin, Smiths hand) ,Leather apron, 18 x 12" Blacksmiths Square files, 10" Leather gloves, Safety glasses	Each tool 15	3600		
34	<b>Tool kit for Foundry Shop*</b>	Tool tray steel 145 x 145 x 5 cm, Taper trowel 18 cm round, Heart and square trowels 3 x 1.2 x 1.2 cm, Trowel heart & scoop, Trowel square & scoop, Trowel double scoop , Trowel double square, Tool spoon 32 x 16 mm – 25 x 6 m. ,Cleaner ( 6 x 300 m, 9 x 300 m) ,Vent wire, 3 mm, Peg rammer, Flat reamer 75 mm x 25 mm height, Rapping spike forged and hardened, Hand bellows – 25 cm, Safety goggles ( with clear glass) ,Goggles (antiglau heat proof) ,Cleaner flange, Edge smoother, Smoother ( round corner, square corner) ,Steel rule – 300 mm, Apron leather or asbestos, Legging pad, Hand gloves ( Leather or Asbestos	Each tool 15	4500		
35	<b>Tool kit for Fitting Shop*</b>	Hand & Ball peen hammer ( 500 Gm) ,Files ( Bastard, Smooth, Super smooth, Square, Round, Triangular), 10", Chisels ( Flat, Cross-cut), 10",Hacksaw, 12", Surface plate, 24" x 24", Center punch , 3", Try square, 6", Twist drill , 13 PC Set, Taps, 3-10 no 8 PC set, Solid die, Steel gauge, Inside & outside caliper, Micro meter, 0-25 mm, Vernier calipers, 6", Vernier height gauge, 12", Filler ( 15 pcs) & Marking gauge(12") , De & Ring spanner ( set of 12 pc) ,Die set , BSW ¼ x 1/2, Steel scale, 12" ,Screw driver, 8", Measuring tape, 3 mt,	Each tool 15	3000		
36	<b>Tool Kit for Carpentry Shop *</b>	Iron jack plane 14" x 2" with cutter 2 kg wt. approx. ,Iron smoothing plane 9" x 2" with cutter 1.7 kg approx. ,Wooden jackplane 14",Wooden smoothing plane 9" / 7", Rebate	Each tool 15	3900		

		plane (1", 3/4", 1/2", 1/4"), Grooving plane 1/8", Corner plane (taper, 1"), Rounding plane (3/4"), Hollow plane (3/4"), Jack plane cutter, 2", Cast steel hand saw, 18", Hand saw, 12", Cast steel tennon saw 10" with handle, Compass saw, 16", Firmer chisel (1", 1/2") with handle, Firmer chisel (3/4") with handle, Firmer chisel (1/8") with handle, Dovetail chisel 3/4" with handle, Mortise chisel (3/8", 1/4", 1/8") with handle, Try square 10" stainless steel blade 0.45 kg, Mallet (Wooden) 500 gm approx., Tee bar cramp (4" length), Gimlet (Screw auger 1/2", 3/8"), Pistol type hand drill m/c 12 mm cap electric single phase, Ratchet brace with three sleeves taper sq. shank boring capacity 50 mm, Spring divider 6", Outside firm joint caliper 6", Cross peen hammer 200 gm approx., Adze (3" angle edge) 1 kg approx., Pincer 8" 350 gm approx., Flate basterd and Half round basterd file 12" (both single cut & double cut), Rasp cut half round file 10", Round basterd file 12" x 1/2", Triangular file (slim paper), (4", 6"), carpentry bench vice 7" x 9" quick release, front dog heavy duty 12 kg approx., Adjustable spanner 12", 0.8 kg approx., Double end spanner set (six piece) 6 mm- 7 mm to 16 mm – 17 mm drop forged chrome plated (eg. Pie, Jhalani, Tapria, Inder), Screw Driver Engg. Pattern 10 mm dia 12", Screw Driver Engg. pattern 10 mm dia 10" size), Number punch set 0 to 9 – Size 1/4", Double ends grinder medium size 8" (Rohit make or equivalent), Marking gauge 6", Carborundum universal stone (Oil stone) 6" x 2" x 1", Cross peen hammer 800 gm with wooden handle, Glass cutter pen, Rasp cut file (8"), Twist drill steel bit 1/4", 5/32", 3/16", 1/8", 5 mm & 10 mm,				
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**R.E. Department**

1	<b>Solar Submersible pump with bore well</b>	Solar Submersible pump with bore well With <b>2 H.P. Capacity</b>	1	15000		
2	<b>Air blower with SS Impeller</b>	Air blower with SS Impeller With <b>500 m<sup>3</sup>/h Capacity</b>	1	2250		
3	<b>Orifice meter with manometer for air flow measurement</b>	Orifice meter with manometer for air flow measurement With <b>4 Inch Pipe</b>	1	3000		
4	<b>Platinum Crucible (20 gm)</b>	Platinum Crucible (20 gm)	2	4020		
5	<b>Biogas plant</b>	Biogas plant <b>10 m<sup>3</sup> capacity solid state fermentation</b>	1	4500		
6	<b>Floating biogas plant</b>	Floating biogas plant <b>2 m<sup>3</sup> capacity solid state fermentation</b>	1	750		
7	<b>Fixed dome biogas plant</b>	Fixed dome biogas plant <b>2 m<sup>3</sup> capacity dry and wet type fermentation</b>	2	1500		
8	<b>Gas Monitor (CO<sub>2</sub>, H<sub>2</sub>, N<sub>2</sub> etc.)</b>	Gas Monitor (CO <sub>2</sub> , H <sub>2</sub> , N <sub>2</sub> etc.)	1	750		

**S.W.E. Department**

1.	<b>Centrifugal mono-block pump set</b>	Centrifugal mono-block pump set	1	450		
2.	<b>Self-priming mini mono-block pump set</b>	Self-priming mini mono-block pump set	1	120		
3.	<b>Tulu pump with accessories</b>	Tulu pump with accessories	1	60		
4.	<b>Pump impellers</b>	1. Centrifugal pump (Radial) CI 200 mm dia 2. Mixed flow (Radial and Axial) – Al 150 mm dia 3. Self Priming (Tangential) GM 100 mm dia	1 each	330		
5.	<b>Cut models</b>	1. Cut model of centrifugal pump (volute and diffuser) and 2. Cut model of turbine pump 3. Cut model of submersible pump	1 each	1200		
6.	<b>Different types of Pumps:</b>	1. Radial flow 2. Mixed flow 3. Multistage 4. Turbine	1 each	5040		

		5. Propeller 6. Axial flow				
7.	<b>Pitot tube:</b>	Precision type Prandle Pitot Tube, nickel plated to measure the total pressure head & velocity head, static head with calibration chart to read velocity head static head.	2	450		
8.	<b>Stop watch</b>	Electronic stop watch	5	90		
9.	<b>Set of Pressure Gauges with accessories</b>	1. Borden type pressure gauge 2. Diaphragm type pressure gauge 3. Capsule type pressure gauge 4. Bellow type pressure gauge	1 each	1200		
10.	<b>Sprinkler set up</b>	Sprinkler set up with all available types of components like sprinkler heads, valves, riser pipe, debris screen, desilting basin, lateral of 20 m length including couplings, main line of 50 m length, pumping unit	1 set	3000		
11.	<b>Electronic balances</b>	<b>1. Top loading balance</b> Read out 'd' : g Weighing range : 600 g Reproducibility: 0.002 g ; Linearity : g <b>2. Precision balance</b> Read out 'd' : g Weighing range : 24100 g Reproducibility: 0.1 g Linearity : $\pm 0.3$ g Weighing plate : 160 x 200	1 each	3900		
12.	<b>Box spanner and ring spanner set</b>	Box spanner set and ring spanner set, pipe wrenches, hammers, screw driver set, chain wrenches, centre punch, fix spanner set, hack saw with blades	1	480		
13.	<b>Lab models:</b>	<b>1. Coffe Dam</b> Properly constructed model in wood illustrating cross section of a Building of two rooms and one verandah with sectional details. Complete on 40x30 cm base approximately. <b>2. Gravity Dam</b> Properly constructed model in wood showing dam portion, spillway of five spans, canal sluices, canal guide wall, Road over dam and inspection gallery, size 90x35 cm approximately. <b>3. Gibb's Module</b> Properly constructed model showing inlet spirally running rising pipe eddy chamber, baffle plates and outlet with divergent flume. Complete on 30x60 cm base. <b>4. Saddle Syphon Spillway</b> Properly constructed model to explain the disposal of high flood discharge. Size approximately 40x35 cm. <b>5. Spillway Gate</b> Properly constructed model showing road way, bucket water Cushion and downstream deflector wall. Size about 40x30 cm. <b>6. Volute Syphon Spillway</b> Properly constructed model showing part of a dam, main vertical Syphon pipe, Bell mouth dome on pillar, outlet etc. made of two units. Size about 50x40 cm. <b>7. Tank Sluice with Plug &amp; Cistern</b> Properly constructed model showing tunnel platform, headwall, cistern, wing wall, earthen dam with slope. The model is properly constructed in wood and size approx. 55x30 cm. <b>8. Tank Sluice with Tower Head</b> Properly constructed model showing intake wall, bund slopes, roadway Revetment cistern, downstream side and controlling device, size about 80x30 cm. <b>9. Tank Weir</b>	1 each	3000		

		<p>Properly constructed model showing the body wall splayed wing walls, stepped apron, Earthen dam and revetment size about 70x50cm approximately.</p> <p><b>10. Sluice Gate</b> Properly constructed having wooden and metallic parts. Rack work type size about 30x20 cm.</p> <p><b>11. Canal Intake</b> Properly constructed model showing main chamber, coarse screen, outlet pipe, canal banks and road. Size approx. 60x50cm.</p> <p><b>12. Syphon Aqueduct</b> Properly constructed model showing canal over a drain, abutment, wing wall, embankment, roadway, the drain bed in depiction under canal crossing etc. size 70x50cm approximately.</p> <p><b>13. Aqueduct</b> Properly constructed model showing canal over a drain, with beel, bank pier, abutment embankment, drainage and wing wall, size about 70x50 cm.</p> <p><b>14. Super passage of two span</b> Properly constructed wooden model showing the drain over a canal crossing. Size approx. 70x50 cm.</p> <p><b>15. Canal drop</b> Properly constructed model showing canal side embankment, connection, trapezoidal notches and other necessary details, size approximately 60x60 cm.</p> <p><b>16. Canal regulator</b> Properly constructed model showing canal portion, each connections, roadway and shutters with lifting arrangement. Complete on about 60x60 cm base board.</p> <p><b>17. River head work</b> Properly constructed model showing main canal, head work with controlling system. Complete on about 70x60 cm base board.</p> <p><b>18. Level crossing</b> Properly constructed model of about 60x30 cm size</p> <p><b>19. Suppressed weir</b> Properly constructed model with stepped apron. The model is properly constructed showing the body wall, splayed wing walls, stepped apron, water cushions, earthen bund and revetment. Size about 70x50 cm.</p> <p><b>20. Slit ejector</b> Properly constructed model showing the main canal, slab, tunnels with curved piers, escape arrangement, complete on about 70x50 cm base board.</p> <p><b>21. Fish ladder</b> Properly constructed model showing the inclined chute cross wall with openings, parts of weir and divide wall, complete on 60x30 cm base.</p>				
14.	<b>Automatic Ground Water Level Indicator</b>	<p>Sounding apparatus with acoustic and light signal, electrode <math>\varnothing</math> 14 mm, plunging volume only 0.8 cm<sup>3</sup>, for all kinds of groundwater (sensitivity 50 microS/cm to 180 milliS/cm), measuring range 50 m, reading accuracy 1 cm, water level measurements in streams, wells and up to 180 m deep bore wells, brass/ steel probe connected with shielded wire having markings at every meter, should easily be inserted in a gap of 2 cm, wire wound on a reel/ spool, made of aluminium having a handle to fasten the wire.</p>	2	2700		
15.	<b>Digital Resistivity Meter</b>	<p>Aquameter CRM AUTO C with standard items (12V, 12AH Rechargeable Battery, Instrument Case, Battery Charger, Instruction Manual, Pouch, Resistance Test Box, Charging Cable, External Battery Cable, Banana Pin Cable (for connections between front panel &amp; continuous contact spools), Banana Pins, Crocodile Clips (for Electrodes), Battery Charger Fuse), Stainless Steel Electrodes (5 nos.), Continuous</p>	1	5850		

		Contact Spools (4 nos.), Geophysical Survey Cable (1000 m), Hammers, Multimeter, Calculator and Measuring Tape (100 m, 2 nos.)				
16.	<b>Digital Ground Water Sampler</b>	SEBA Electric Contact Meter Type KLL with 100 m cable PH 30703 - 1.0 l sampling unit, metal parts and jacket tube made of aluminium, changeable dropping weight V2A, standard equipment with drain cock.	1	3300		
17.	<b>Water Depth Gauges</b>	Dimensions : 7 3/4" L x 1 3/4" dia Power : 9 V battery (including) Range: 2 to 260 ft (0.6 to 79 m) Accuracy : nearest tenth (ft or m)	2	1800		
18.	<b>Digital Infiltrometer</b>	Inner ring diameter of 2 3/8 inches, Outer ring diameter of 4 1/4 inches, Sturdy construction, Rust proof zinc plating, Depth limiting ring, Count down timer clock with beeper alarm, Water level scale in inches and millimeter, Float and inch indicator, Double ring, Heat treated, case hardened cutter blade, Handle grips	2	2550		
19.	<b>Display board for pipes and fittings</b>	Display board for pipes and fittings including Tees, Elbows, Reducers, Valves, end plugs etc.	1	480		
20.	<b>Manometer apparatus</b>	M.S. Sheet metals Manometer mounted on strong M.S. Stand 1. <b>Differential Manometer double column type</b> (1.0 m height) 2. <b>Inclined Manometer</b> (1.0 m height)	1 each	750		
21.	<b>Water meters</b>	1. Turbine type water meter 2. Vane type water meter	1 each	750		
22.	<b>Darcy experiment setup</b>	(a) Piping circuit with 3 M.S./G.I. pipes lines of sizes 25 mm, 15 mm & 9 mm (3/4") dia with G.M. cocks tapings at 1 m distances. Each pipe having the pressure tapings with separate cocks connected to a common middle manifold which is connected to the manometer & G.M. gate valve. (b) M.S. reservoir of size 0.9 m length x 0.55 m width x 0.45 m height with gauge glass & scale fitting, drain valve of 1/2" size & a bend. (c) M.S. collecting as well as measuring tank of size 0.6 m length x 0.35 m width x 0.45 m height with by passes arrangement & drain valve of 1" size. A gauge glass & scale fitting are fitted on measuring tank for discharge measurement. (d) 1 m height double column differential manometer (without Mercury) (e) 1 hp high head mono block pump for water circulation. (f) Strong iron stands to support the unit (g) Entire unit is powder coated with good colour combination. (h) Instruction manual	1	1050		
23.	<b>Pore pressure apparatus</b>	Apparatus consisting of a panel for wall mounting on which are fitted 0 to 20 kg/cm <sup>2</sup> x 0.2 kg cm. sq. pressure gauge, bourdon tube type 15 cm dia. Manometer: Glass U-tube manometer for measuring low positive pore pressures, negative pore measures and checking zero error of pressure gauge. Provided with a mercury trap (mercury supplied at extra cost.) Null indicator made out of clear transparent Perspex with mercury trap and cursor to indicate the mercury level. Burette: 50ml burette for measuring the volume change in the soil specimen. Pressure pump fitted with four sleeve packed valves, operated by means of a hand wheel on the end of the piston rod which is threaded through the pump cap and gives a smooth, fine adjustment of pressure. Copper coil and water reservoir is fitted on board with complete stand assembly. Spares: Polythene tube 3 mm bore x 5 mm. O.D.	1	1200		

24.	<b>Guelph Permeameter</b>	Accurate evaluation of soil hydraulic conductivity, soil sorptivity, and matrix flux potential, measurements in the range of 15 to 75 cm below the soil surface. Complete kit consisting of the permeameter, field tripod, well auger, well preparation and clean up tools, collapsible water container, and vacuum test hand pump, all packaged in a durable carrying case.	1	11250		
25.	<b>Scanner (42") wide colour for toposheet</b>	Number of Pixels: 90000 Real Resolution: 600 dpi Enhanced Resolution: 9600 dpi Scan Accuracy: 0.1 % ±1 pixel Scanning Speed ( inch /sec ) : 1"/sec at 400 dpi turbo. 24 bit RGB 3"/sec at 400 dpi turbo. 8 bit Index RGB 12"/sec at 400 dpi turbo. 8 bit Gray scale & 1 bit monochrome Maximum Scan width: 1066 mm Maximum Media Width: 1118 mm Resolution Setting: Variable from 50 dpi in one increment Digital image processing: Dual 2-D Adaptive Enhancement & Adaptive Gray Sensors / Cameras: 4 channel CCD"s/ All Digital Cameras Interface: Fire Wire, USB 2 ( high speed) with X DTR.STL, WTA,TWAIN Weight / Dimensions : Approximately 65 kg/1400 W x 500 B x 200 H mm Floor Stand :Should be provided System Software: Should be included with other tools like Scanner Drivers Host Platforms: Windows XP	1	24000		
<b>Miscellaneous Items [Items 1 to 6 Godrej Make Only]</b>						
1	Sofa Set	A. Prestine White B. Oakdale	05	2400		
2	Bed	A. Double Bed: Zurina B. Single Bed : Opal	05 05	1020		
3	Dining Table	A. Sizzle Table with six Chair B. Brawn Table with six Chair C. Glaze Table with six Chair	05	3480		
4	Computer Table	A. C13 B. Target 103 C. Target 109	10	240		
5	Study Table	A. Uno B. Genius 208	10	270		
6	Chair	A. Kareena B. Leoma C. Eden D. Sedna E. Bravo	10	1500		
7	Multi-crop thresher		01	3600		
8	Mini combine harvester		01	45000		
9	Power tiller with matching implements Diesel engine operated		01	6000		
10	Tractor drawn boom sprayer*		01	1500		
11	Tractor operated seed-cum-fertilizer drill*		01	1500		



12	M.B. plough*	*Implements matching to 50 hp tractor	01	900		
13	Disc plough*		01	900		
14	Disc harrow*		01	1050		
15	Self propelled paddy transplanter 18 rows		01	4800		
16	Mini-tractor (Yuvraj – M & M)		01	6300		
17	All matching implements for a mini-tractor		01 each	6000		
18	Power weeder		01	1800		
19	Zero till Happy seed drill*		01	1800		
20	Hydraulic Trailer 2t capacity for tractor		01	2400		
21	Mini Hydraulic trailer with one ton capacity for jeep as well as tractor		01	1500		
22	Compact garden tiller		01	1800		
23	Roto Seeder*		01	3000		
24	Happy Seeder*		01	3000		
25	Reaper cum binder-self propelled		01	10500		
26	Tractor operated bailer*		01	10500		
27	Experimental set up for engineering mechanics laboratory		20	3750		
28	Tractor mounted harvester*		01	36000		
29	Vegetable transplanter*		01	3000		
30	Tractor mounted Chiesel plough(3 row)*		01	900		
31	Tractor drawn pneumatic seed drill*		01	10500		
32	Tractor mounted mulch machine*		01	1500		

<b>33</b>	Self propelled cotton plucking machine		01	6000		
<b>34</b>	Tractor operated Groundnut/ castor thresher*		01	3000		

## **1.0 General instructions:**

- 1.1 The fees for on line tender document will not be refunded under any circumstances.
- 1.2 EMD in the form specified in tender document only shall be accepted.
- 1.3 Tenders without Tender document fees, Earnest Money Deposit (EMD) and which do not fulfill all or any of the condition or submitted incomplete in any respect will be rejected.
- 1.4 Conditional tender shall not be accepted.
- 1.5 The tenderers are advised to read carefully the "Terms & Conditions" contained in the tender documents.
- 1.6 The Internet site address for E-Tender is <https://au.nprocure.com> and that of corporate web site is [www.nprocure.com](http://www.nprocure.com)
- 1.7 Free training camp for bidders will be organized on every Saturday between 1.00 to 5.00 P.M. at (n)Code solutions, A division of GNFC, 301, GNFC Infotower, Bodakdev, Ahmedabad- 380 054 (India). Bidders are requested to take benefit of the same.  
(n)Code solutions A division of GNFC 301, GNFC Infotower, Bodakdev, Ahmedabad-380 054 ( India )  
Tel : +91 26857316/17/18 Fax: +91 79 26857321  
E-mail: nprocure@gnvfc.net Mobile: 9327084190, 9898589652

## **2.0 Down loading Tender Document:**

- 2.1 Bid documents will be available on web site up to Date shown above.
- 2.2 Bidders wishes to participate in this tender will have to register on web site <https://au.nprocure.com>

## **3.0 Digital Certificate:**

- 3.1 Bidders who wish to participate in online tenders will have to procure / should have legally valid Digital Certificate as per Information Technology Act-2000 using which they can sign their electronic bids. Bidders can procure the same from any of the license certifying Authority of India or can contact (n)code solutions - a division of GNFC Ltd, who are licensed Certifying Authority by Govt. of India.
- 3.2 All bids should be digitally signed, for details regarding digital signature certificate and related training involved the below mentioned address should be contacted:  
(n)Code solutions A division of GNFC 301, GNFC Infotower, Bodakdev, Ahmedabad- 380 054 ( India )  
Tel : +91 26857316/17/18  
Fax : +91 79 26857321  
E-mail : nprocure@gnvfc.net  
Mobile : 9327084190, 9898589652
- 3.3 Bidders who already have a valid Digital certificate need not procure a new Digital certificate.

## **4.0 On line Submission of Tender:**

- 4.1 Bidders can prepare & edit their offers number of times before tender submission date & time. After tender submission date & time, bidder cannot edit their offer submitted in any case. No written or online request in this regard shall be granted.

- 4.2 Tenderer shall submit their offer in Electronic format on above mentioned website & Date shown above after Digitally signing the same.
- 4.3 Offers submitted without digitally signed will not be accepted.
- 4.4 Offers in physical form will not be accepted in any case.

#### **5.0 Submission of Tender Fees, Bid Security and other Documents:**

- 5.1 Tender Fee: Rs. 5000/- (Rupees One thousand only) by Demand Draft in favour of "AAU Fund Account, Anand" payable at Anand from any Nationalized/Scheduled Bank except Co-operative Bank. Demand draft issued after the last date of submission of Bids will not be considered or accepted.
- 5.2 Bid Security i.e. EMD in the form of DD/FDR in favor of "AAU Fund Account, Anand" payable at Anand from any Nationalized / Scheduled Bank except Co-operative Bank. DD/FDR shall be valid up to 180 Days. DD/FDR issued after the last date of submission of tender will not be considered as valid or accepted in any case.
- 5.3 DD/FDR for E.M.D. & DD for tender fee shall be submitted in electronic format through on line (by scanning) while uploading the bid. This submission shall mean that E.M.D. & tender fee are received. Accordingly offer of those shall be opened whose EMD and tender fee is received electronically or as per above mentioned. However for the purpose of realization of DD/FDR bidder must send the DD in original through R.P.A.D/speed post to the Principal, College of Agricultural Engineering & Technology, Dhaula kuva, Dahod Road, Godhra-389001, Gujarat. Paneltative action as directed by Govt. for not submission DD/FDR in original to the Principal by bidder shall be initiated.
- 5.4 DD for Exemption Certificate is not necessary. However Exemption Certificate (if applicable) shall have to be submitted electronically through online. Any documents in support of bid shall be submitted in electronic format only through online (by scanning etc) & hard copies are to be sent through R.P.A.D/speed post to the Principal, College of Agricultural Engineering & Technology, Dhaula kuva, Dahod Road, Godhra-389001, Gujarat. .
- 5.5 Bidder has to submit the documents as said in 5.3 & 5.4 above and no other condition in any form shall be considered at all, at the time of evaluation of the tender i.e. the bidder shall have to submit unconditional offer without differing from any of the tender condition.

#### **6.0 Opening of Tender:**

- 6.1 Opening of bid documents will be held on Date & time shown above in the office of the Principal, College of Agricultural Engineering & Technology, Dhaula kuva, Dahod Road, Godhra-389001, Gujarat.
- 6.2 Intending bidders or their representative who wish to remain present at College of Agricultural Engineering & Technology, Godhra premises at the time of tender opining can do so.

#### **7.0 Contacting Officer:**

- 7.1 Further details/clarification if any required will be available from Principal, College of Agricultural Engineering & Technology, Dhaula kuva, Dahod Road, Godhra-389001, Gujarat. Phone & fax No. (02672) 265128.
- 7.2 In case bidder needs any clarification/assistance or if training required for participating in online tender, they can contact at following office.

**Terms and conditions as applicable for item/set of items for Furniture (Godrej Make) FMPE including workshop, RE & SWE department**

1. The Tenderer should fulfill the following requirements, copy of which should be attached with the Tender, failing which the Tender will be rejected:
  - (a) Registration Certificate under the shops & Establishment Act **1958**
  - (b) Income Tax Clearance Certificate for 2010-11
  - (c) Service Tax clearance Certificate for 2010-11
  - (d) Currently valid Authorization Certificate issued from the manufacturer Company for sales and services of those items.
2. The rates quoted should be indicated in figures as well as in words and there should not be any overwriting as far as possible. Overwriting, if any, should be initiated.
3. Rates quoted should be inclusive of all the applicable expenditures related to erection, commissioning and installation of the machine/equipment to install it into working condition at C.A.E.T., Godhra. Only space and power plug point will be provided by C.A.E.T., Godhra. No concessional forms will be issued for any tax rebate.
4. Rates should be inclusive of training for two CAET staff, if required for any machine/equipment.
5. Maintenance cost of the machine/equipment for three years should also be mentioned in the quotation.
6. Cost of all the technical data, charts, manual etc. related to equipment/machine should be mentioned.
7. Each and every page of the offer should be signed by the Tenderer before Submission as a token of acceptance. Corrections, if any should be duly signed & sealed.
8. The quantities specified are only indicative and for the purpose of estimate only. The university authority will be at liberty to vary (delete/reduce/decrease) the quantum of the item. Also the university authority has the full right to order or not to order the items to the successful Tenderer, depending upon latest budgetary situations.
9. For Sr. no. 1-20 of FMPE dept., a comparative statement showing comparison between our specifications of machine/equipment and the specification offered by the firm (if it is different and not fully matched) is essential with the quotation. In absence of these, quotation may be rejected.
10. Validity of the quotation should be of one year from the last date of receipt of the quotation. The rates quoted by the bidder shall remain firm till the completion of the job and price variation shall not be entertained.
11. Payment shall be made only after satisfactory installation and demonstration. Advance or part payment or payment through bank cannot be entertained nor any loan from any bank or financial institution, recommended on the basis of the order of award of work.
12. In case of inferior/sub-standard supply, or supply not according to the Specifications approved, the University will have the right to reject the complete material and cancel the supply order.
13. For serial no. 33-36 (FMP) it is compulsory to quote the rate of individual tool separately in additional sheet. So we can place the purchase order of individual tool as per our requirement. Tools should be branded & fulfill all the standard ,set up by competent authority regarding quality and service of this tools, in this regard firm must attach a certificate showing that the tools quoted are as per this standard and specification of tender.

14. The selected party should be able to offer a minimum warranty of two years for the items supplied and free repair/replacement of the item, has to be done by the party in case of damage or manufacturing defects, noticed if any.
15. **Performance Security Deposit:** The successful tenderer shall furnish Bank Guarantee/Performance guarantee which will be equal to 5% of the work order value, in the form of Bank Guarantee/FDR from a Nationalized Bank in favour of "AAU Fund Account, Anand" payable at Anand from any Nationalized / Scheduled Bank except Co-operative Bank within 10 days from the receipt of Purchase/supply order, which will be returnable after completion of the warranty period, failing which 5% of the work order value will be withheld for the period of the Guarantee/warranty.
16. In case of delay in supply, the Institute will have the right to impose penalty @1.5% per month (to be computed on per day basis) of the total cost of ordered item(s).
17. In case of non-compliance of the work order, after entering into Agreement, the Security Deposit will be forfeited and the party will be black listed for 3 years. Also, further action shall be taken at the costs of the Party.
18. Tender forms only from original manufacturers/ their authorized dealers/suppliers who are in the concerned field will be considered.
19. The credentials of the party, list of customers and complete illustrated literature should be enclosed with the tender form.
20. The firm should be ready for pre-inspection of the item and its performance, if necessary and If required, sample(s) of the item(s) shall be called from the parties for quality assessment before award of supply order.
21. All the electronic hardware should comply with international standards for safety, electromagnetic emissions and immunity, CE/FCC Mark/Certification, etc.
22. Tenderer should have to attach original colour catalogue of the each quoted product ensuring exact specifications.
23. 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.
24. **Being an education institution we are eligible for exemption of excise duty / custom duty.**
25. The Earnest Money Deposit (EMD) in the form of crossed Demand Draft payable to "**AAU Fund Account**" payable at Anand, shall have to be accompanied with the filled Tender Forms. Tender submitted without EMD shall not be considered.
26. Tenderer shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fails to observe and comply with the stipulations made herein or back out after quoting the rates, or does not supply the afore said items within the stipulated period, the EMD will be forfeited.
27. All necessary tender documents in sealed envelopes should reach the office of the Principal, CAET, AAU Godhra-389001 from 04/11/2011 to 08/11/2011 at **18.00 hr** only by Speed Post / Register Post.
28. Please super scribe the envelope, "**RATES FOR FURNITURE/MACHINES/LABORATORY EQUIPMENT/OTHER ITEMS**" and sender's name and address must be mentioned clearly.
29. The University authority reserves the right to accept or reject any or all the offers in full or apart or to waive off any formality, minor deviations and omissions without assigning any reason(s) or to cancel the tender in whole. The University reserves the right to reject conditional Tenders and also relax any conditions of Tender at its discretion. In case of disputes, decision of Vice Chancellor, Anand Agricultural University, Anand will be final and acceptable to all the parties.
30. Submission of offers shall be treated as the acceptance of AAU Terms and any counter terms shall not be accepted.

31. The University has the right to retain the rates of L-1 to L-3 parties as deemed fit.
32. In case of Furniture the specified specifications/model makes needs to be strictly adhered. Items with deviations in above respect will not be considered, hence need not to be quoted.
33. While quoting the rates, it will be desirable if the exact photograph, technical brochure or the supportive letter/documents of respective items will be attached with quotation.
34. It will be desirable if the original manufacturer/ company/proprietary firms may also quote their best possible minimum rates for this newly developed academic organization offering best possible rebates if any.
35. Financial bids/tender must be supplied only on-line within given frame of time. No such bid or document be supplied physically to the College, moreover some of the other important & concise terms and conditions will remain as follows(in additions to above), which needs to be strictly adhered to be a qualified bidder,

Documents to be supplied physically only by registered post and to be dispatched only after last date & time of receipt of online financial bid	<ol style="list-style-type: none"> <li>1. The Demand draft for Tender Fee, of Rs. 5000/- drawn in favour of "AAU Fund Account, and Payable at Anand"</li> <li>2. The Demand draft for EMD, drawn in favour of "AAU Fund Account, and Payable at Anand" (there may be a single DD, if firm is quoting for more than one item from various groups).</li> <li>3. The authenticated copy of authorized dealership / manufacturer / original company etc.</li> <li>4. The documents showing profile of firm / supplier to justify involvement with items and list of important clients dealt in past.</li> <li>5. The pictorial view / technical specifications / drawing / complete brochures of individual item for which rate is quoted.</li> <li>6. Authenticated copy of PAN card, Income Tax returns of last years, Service tax, VAT, Firm registration certificates and any other supportive documents.</li> <li>7. A complete set (except financial bid / documents) of all other documents uploaded online by bidder to justify their product and services.</li> </ol>
Other general conditions	<ol style="list-style-type: none"> <li>1. The quoted rates shall remain valid at least for 365 days from the opening date of e-tender.</li> <li>2. Depending upon prevailing conditions the organizations will have full right to unconditionally accept / reject the whole or part of items in this e-tender.</li> <li>3. Firms / agencies must insure the quality of quoted items as well as after sale service.</li> <li>4. Any specific offer for rebates / support for this academic organization must be categorically mentioned only in, on line financial bid and not at all in the physical documents / matter submitted after closing of e-tender.</li> <li>5. The firms / agencies are expected to follow all the ethics / rules / any other requirements. Any other physical document or other information which have been missed herein, may also be provided accordingly.</li> <li>6. For any clarification/technical queries, following contacts may be utilized , <ul style="list-style-type: none"> <li>• Office of Principal &amp; Dean , CAET, Godhra ( +91-2672-265128, 265027 , 292991 )</li> </ul> </li> </ol>

**Signature of Tenderer with Date**

**Name:**

**Name of the Firm:**

**Address:**

**Telephone No. :**

