

**BILLS OF QUANTITIES FOR INTERIOR FURNISHING WORK OF BANK OF BARODA FOR REGIONAL OFFICE
AT ANAND**

PRICE BID

Sr.No.	Description	Unit	Quantity	Rate	Amount
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Note : All new wooden furnitures shall be treated with Anti Termite chemical. All plywood shall be Boiling Water Proof (IS 710) of approved make only, Solid Core Laminate to be use for whole projects.

Contractor shall strictly follow the approve make list of each tender items as mentioned in tender.

Contractor are advised to visit the above said site before quoting the rates

Rate shall be inclusive of material,labour,tools, machinery, scaffolding, final disposal of debris ,cleaning cutting wastage etc. all taxes, transportation, VAT ,Excise, Octroi etc. Excluding GST complete. [GSt will be paid extra as per applicable norms]

[A] FURNITURE WORK

1	P/F BOTH SIDE LAMINATE SOLID/ PARTLY GLAZED FULL HEIGHT PARTITION WITH DOOR	SMT	98		
	Providing and fixing both sides laminate full height partly glazed partition using 50mm x 25mm x 1.50mm thick Aluminium members in a maximum grid of 600mm x 600mm fixing 12 mm thick Plywood Board on both sides with 1.0 mm laminate of approved make shall be fixed on plywood. Providing and fixing 5.0/8.0 mm thick float glass as directed in the partition. Providing and fixing door shutter using 32 mm thick flush shutter both side laminated and fixing 6 mm thick glass with beading patti, 5" Long 3 Nos stainless steel hinges, doorstop shall be provided as directed. Godrej Mortice lock shall be provided in door shutter. All visible members if not laminated shall have lacquer polished as directed.				
	The partition shall be secured by fixing & extending the vertical members of the frame at critical points upto the bottom of the RCC Slab or sides/bottom of RCC beams & bottom horizontal member of frame shall be secured & fixed with the flooring as directed.				
	For purpose of payment partition height up to bottom of false ceiling only shall be measured and paid . No extra payment shall be made for members going up to slab/beam bottom				
1[a]	Providing & fixing Low height partition	SMT	80		
	Providing and fixing low height patition using 50mmx25mmx1.20mm thick Aluminium members maximum in grid of 2'-0" x 2'-0" fixing 12 mm thick commercial plywood of approved brand on both side of T.W skeleton and fixing 1.0 mm thick laminate of approved shed on both sides. Fixing T.W member of 2.5" x 1 " Steam Beach. members in a shape as directed shall be fixed on all exposed edges. Fixing 12mm th free glass as directed. Applying polish on exposed steam beach members with polished edges as directed complete. Providing pinup board of soft board covered with fabric and fixed in partition complete as directed.				

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Sr.No.	Description	Unit	Quantity	Rate	Amount
1[b]	P & F ISOLATED FLUSH DOOR SHUTTER Wiith Frame	SMT	6		
	Providing and fixing Flush door shutter made out of 32 mm thick flush door with 6 mm thick clear float glass vision panel secured with 12 mm thick steam beach beading, 32x12 mm thick steam beach periphery patti around shutter edges, 1 mm thick laminate on both sides , 36x12mm thick steam beach stoper patti on partition door gap including 3 Nos 5" long SS hinges with countersunk SS screws, Godrej Mortice Lock(Cylinder) or Equivelent make. Door stoppers, all exposed surface /edges not laminated be provided with lacquer polish complete as per drawing & instructions				
1[c]	Providing and fixing UPS door shutter with Aluminium Frame and both side Hilux sheet	SMT	2		
	Providing and fixing door shutter made out of 50x25x1.5mm thick aluminium framing at maximum 1'-6" C/C both way with 8 mm thick Hilux Board on both side with painting. Providing 6 mm thick clear float glass vision panel secured with 12 mm thick steam beach beading. Steam beach beading of size 31x 12 mm should be placed around shutter edges, aluminium stoper patti on frame including 3 Nos 5" long SS hinges with countersunk SS screws, Approved make Dead Lock, S.S Handles,Door stoppers, doorstopper to be fixed as per drawing & instructions. All beadings should be polished.				
1[d]	Providing and fixing "Dorma/ Ozone/Godrej" or equivalent make door closure.	EACH	5		
2	Providing and fixing paneling on pillars & wall with laminate	SMT	150		
	Providing and laying pannelling on walls & pillers having 12mm th BWP Plywood of Approved make and 1.0mm th laminate fixed on wall & pillers with aluminium framing of 25mm x 25 mm x 1.20 mm thick at maximum 2'-0" c/c bothways or 18 mm thick plywood with laminate panelling on wall and pillar and creating box above main door and fixed glass partition etc complete as directed. pannelling as per design and instruction of Architect.				
2[a]	Extra for providing and fixing aprox. 3.5 mm thick veneer of basic rate of Rs.110=00 per Sft instead of Laminate on Conference Table, etc. as above in approved pattern as per drawing and directions including 3 coats of melamine spray finish polish complete. All around Venner finished surface area shall be measured for payment purpose.	SMT	12		

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Sr.No.	Description	Unit	Quantity	Rate	Amount
2[b]	Providing and applying Texture paint of Heritage/Berger brand on internal walls. Rate includes surfaces preparation, applying necessary coats of paint to obtain Uniform and even finish. Rate also includes applying paint of approved shed etc. complete.	SMT	10		
2[c]	P/A WALL PAPERS				
	Providing and applying Wall paper approved by Architect / Bank's Engineer having basic price of Rs 100=00 Per Sq.Ft	SMT	10		
3	P & F LOW / FULL HEIGHT STORAGE UNITS	SMT	30		
	Detailed Specification: Depth 406mm(1'-4") Height 760mm (2'-6")/ 914mm (3'-0")/2134mm (7'-0") height having openable shutter as directed. Cabinet shall be made from 18mm thick ply wood for verticale shelves ,shutter and 8mm th plywood for backing with 1.000 thicl laminate on all exposed surface (Laminate on Low height SCB exposed back side) . and balacing laminate for all internal surface with verticale (at 914mm/3'-0"c/c) shelves at 381mm (1'-3") shutter openable shutters in 18 mm thick Ply wood with all S.S Auto hinges, tower bolts power coated handle ball catches,S.S (group lock) multi purpose lock completed Edges to be finshed with teak wood lipping with polishing etc. including all incidental surface to be polished/painted etc. complete, all the Non visible surface shall be have 0.60 mm thick balancing laminate of approved shed as directed.				
3[a]	P & F BISION PANEL ELECTRIC CUP BOARD	SMT	3		
	Providing and fixing Electric cup board using 18mm thick bision panel for verticale and shelves and aluminium framing of 50x25x1.20mm thick with 6mm thick bision panel on both side for shutter with 1.0 mm thick laminate on all exposed surface and polishing/ synthetic enamel paint on all internal surface. shutter with approved make lock handle, hinges,ball catches P&fixing S.S Perforated jali shall be provided in shutter etc.complete as directed, depth of cup board 1'-3".Shutter height up to 7'-0" and above fixed Type up to false ceilling bottom				
4	Providing soft board for pin up using moulded Steam beach frame of 35 x 18mm with 6mm thick plywood on back side and 12mm th soft board on front. Fixing cloth of selected design of Basic rate of Rs. 150 per mt.steam beach member shall have lacquer polish as directed complete.	SMT	3		
5	Supplying and fixing Roller Blind Blackout of approved make with selected fabric of approved design and shade.	SMT	30		

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Sr.No.	Description	Unit	Quantity	Rate	Amount
6	MAIN DOOR (Approx. Size 3'-6" X7'-0") Openable door shutter Portion	SMT	3.00		
	Providing & Fixing fully glazed main door at the main entrance The Item includes fixing of 12 mm th. Toughned glass with the help of top patch & bottom patch fittings . The door will have patch lock, pti pivot, floor spring & 600 mm long handles , fixed with the glass by making necessary cutouts & holes. The glass edges shall be polish on all sides. The entire door shall be erected in complete line & level. The door will have S.S brush finish Signage for pull & push.The entire door, complete in all respect should be installed in positions as req.				
6[a]	Same as above but 12 mm thk toughned partition with patch fitting	SMT	10		
7	P & F GYPSUM BOARD FALSE CEILING	SMT	268		
	Providing and fixing Gypsum board 12.50 mm thick false ceiling in steps and design using Original Indian Gypsum board with original GI sheet section (Gypframe) supporting system in lline and level. Finishing the surface and applying 3 coats of flat paint as directed complete entire work to be done asper standard specifications of Indian Gypsum.				
	Note : (1) Rate includes making necessary cutouts for lighting fixtures (2) Pattas of Less than 1'-0" shall be measured in Sqft and not in Rft and paid in Sqft. (3) Only finished surface area shall be measured for payment.				
8	Providing and fixing of Armstrong Mineral Fibre Acoustical Suspended Ceiling System with 16 mm thick FINE FISSURED (MICRO LOOK) EDGE TILES WITH ARMSTRONG SELECT (Black Reveal) 15 mm EXPOSED GRID.	SMT	182		
	Using Select Grid with Fine Fissured microlook. With necessary Angles at junctions as per company specifications as directed complete. Rate includes necessary cut outs for A/C Grills, diffusers light fixtures complete as directed. Cutout for lighting fixture and Diffusers will not be deducted from area for payment purpose.				

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	WOODEN TABLES				
9	SUPPLYING AND PROVIDING RM TABLE SIZE 8'-0" X 3'-0"	NO	1		
	Suppling and providing Table as per the following description Table top shall be made for 18mm thick ply wood with 1.0mm th laminate with finish as per the drawing enclosed herewith with necessary intermediates support. Table top shall be supported by 18mm thick ply wood with wooden framing 1.0mm thick laminate . Drawers unit of 1'-4" W x 1'-9"D x 2'-5" H shall be provided using 18mm thick ply wood having 5 Nos drawers with heavy duty telescope sliding channel of Ebco make ,Godrej lock / S.S. Handle. Computer Keyboard tray (510x240mm internal dimension) is made up of 0.8mm thick CRCA sheet fitted on telescopic channel and soft pad of PU material mounted on front edge shall be provided. Exposed surfaces of the cabinete shall have 1.0mm th lamiante . Foot rest of 1 1/2" x 3" T.W members shall provided. All the Non visible surface shall be have 0.60 mm thick balancing laminate of approved shed				
	Apron made from 18 mm thick ply with lamiantion shall be provided in a pattern as directed. Table shall have stand for keeping CPU and cable Manager shall be provided in table top. Table shall be made as per drawing				
9[a]	Same as above item No 9 but SUPPLYING AND PROVIDING DRM TABLE SIZE 6.6'-0"X2'-9"	NO	1		
9[b]	SUPPLYING & PROVIDING CONFERENCE ROOM TABLE	24	RMT		
	Width 2'-3" height 2'-6" Top shall be made from 18mm th Commercial plywood with necessary in between supports & apron with both side laminate as directed complete. 6mm thick white Corian DUPONT with 18 + 75mm wide 12mm thick plywood with 30mm thick edges shall be provided to the top as per instruction of the Architects complete as directed. Providing foot rest by using 3" x 1/2" T.W member, making necessary arrangement for installing Audio and computer system as directed complete. All visible surfaces of Table shall have liquer polish as per instructions of Architects. Preiliminary drawing of the Table is enclosed herewith there may be some modifications suggested during execution.Inside and bottom portion of table should be liquer polish. All the exposed visible surface with laminate finished etc complete.				
	FINISHING DETAILS IN NUTSHELL:				
	1) Table Top & Edges : 6 mm thick white corian				
	2) Front Apron: 1.0 mmthick Laminates finish as per design				
	3) Inside Apron & Vertical Support : 1.0 mm thick laminate finish				
	4) All the internal surface (non visible surface) shall be provided with 0.60 mm thick balancing laminate				

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	Conference Table Average length shall be measured and paid.				
9[c]	SUPPLYING & PROVIDING SERVICEING TABLE WITH STORAGE CUP BOARD BELOW with shutter (Width 1'-9" x2'-6" Height)	2	RMT		
	Supplying and installation Servicing Table of size 1'-9" width 2'-6" height and 6'-0" to 8'-0" length having openable shutters as directed. Service Table with Cabinet shall be made from 18 mm thick commercial ply wood with 1.00 mm thick Laminate Finish. Back shall be made from 6 mm thick commercial plywood. Openable shutters shall be made from 18 mm thick commercial ply wood with laminate finished and approved make group lock, handle, hinges, magnet catch. , Rate includes all necessary provisions for installing computers. All the internal surface, back side shall have 0.60 mm thick balacing laminate				
	Exposed edges of Sides, Table Top shall be made 36 mm thick by providing additional 18 mm thick ply wood patta of required width.				
	All the internal surface (non visible surface) shall be provided with 0.60 mm thick balancing laminate				
	FINISHING DETAILS IN NUTSHELL:				
	1) Top : Dark Laminate & Burma Teak beading on Edges with pilishade				
	2) Front Apron & Sides: Frosty White Laminate				
	SIDE CREDENZA				
10	Supplying and Providing Side Credenza				
	Supplying and providing side Table as per the following description having partly openable and partly drawer Side table top shall be made for 18 mm thick plywood with 1.0 mmt thick laminate as per the drawing enclosed herewith. Cabinet shall be made from 18mm thick ply wood with 1.0mm thick laminate . Back shall be made from 8mm th plywood. openable shutters shall be made from 19 mm thick MDF BOARD with 1.0mm th laminate with 2 mm thick PVC beading with all S.S Auto hinges, 100 mm long SS brush finish handle, S.S (group lock) multi purpose lock with longer mortice ledge,and "Godrej" lock. 2 nos Drawers and key board shall slide on heavy duty telescope sliding channel, all the Non visible surface shall be have 0.60 mm thick balancing laminate of approved shed as directed. Rate includes all necessary provisions for installing computers.				
10[a]	Same as above item No 10 but Supplying and Providing RM & DRM Side Table Size 3'-6" Length x 1'-4" Width x 2'-6" Height With openable shutter	NO	2		
10[b]	DINING TABLE Approx Size 6'-0"x 2'-6"	NO	3		

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AT ANAND**

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	Supplying and installation of Dining Table of 2'-6" height, 1" x 1.5" ht. T.W beading shall be fixed on border. Top shall be made of 18 mm thick commercial plywood with additional 18 mm thick Ply wood patta of required width on edges with 1.0 mm thick laminate on top of approved shade and supports of the Table shall be made of 2" x 2" T.W. members in a Design as directed. All surfaces not laminated shall be lacquer polished.				
	Exposed edges of Table Top shall be made 36 mm thick by providing additional 18 mm thick ply wood patta of required width.				
11	P/F PANTRY PLATFORM CUB BOARD SHUTTER	SMT	2		
	Providing and fixing cupboard shutters below pantry platform using 1 1/2" x 2 1/2" second grade T.W members for frame, 18 mm Tk plywood with 1.0 mm lamiate for shutters. Providing 1/2" th T.W beading all around shutter. Providing S.S hinges, Handles, stoppers and magnetic catch as directed. All the without lamiate surface shall be polished/ synthetic enamel paint as directed complete.Providing and fixing 0.60 mm thick balancing laminate on internal shutter surface				
12	P/F WOODEN FALSE CEILING	SMT	32		
	Same as above but Providing and Fixing of 8 mm thick MDF board ceiling with paint instead of Gypsum Board for Item No-5 etc complete as per design and instruction Only finished surface area shall be measured for payment. (For Reception Area Round Design)				
13	Supplying and fixing 6mm thick WHITE CORIAN instead of core laminate on Table top, table sides, facia all around and other surfaces. All complete as per drawing and direction with all labour and materials, Rate shall be in sqmt for top on edges No Rmt charge shall be paid	SMT	3		
14	Supplying and fixing aprox. 3.5 mm thick veneer of basic rate of Rs. 95=00 per Sft instead of 1 mm thick core laminate on Table, Side tables, Storage Cup board, Wall Panelling etc. All complete as per drawing and direction including PU Coating finish, all labour and materials etc complete as directed.	SMT	20		
15	P/F 8mm thick Back Painted Glass instead of Laminate Finish	SMT	5		
16	PAINTING WORK				
[a]	P/A ACRYLIC EMULSION PAINT (PLASTIC PAINT)	SMT	305		

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	Providing and applying (with rollers only) Acrylic emulsion paint of required shed and approved make on new/old work in two or more coats to give an even shed including the preparation of surface for painting, applying FULL primer and putty, at all heights complete as per manufacturer's specification and as directed.				
[b]	P/A SYNTHETIC ENAMEL PAINT	SMT	100		
	Providing and applying synthetic enamel paint, at all heights of required shade and approved make on old work including the scrapping/cleaning and preparation of surfaces for painting, applying primer and putty, with two or more coats of approved first quality enamel.				
[c]	P/A DISTEMPER PAINT	SMT	156		
	Providing and applying distemper paint water base of approved make & shade on old work including scrapping/cleaning and preparation of surface for painting, applying cement based primer & FULL putty of approved make. Applying distemper paint in two or more coats to give uniform covering, all heights as directed by Engineer.				
17	Supplying and providing Sofa with Scotchgard Fabric Protector				
	Detailed Specification: Clear width of seat 1'-9" ht. of back 1'-3". Skeleton of the sofa shall be made of 18 mm thick ply wood member with framing of T.W in shape as suggested by Architects suitable No. of springs shall be provided for better comfort. Seat shall be padded with 4" & 2" thick. U foam high density. Seat and back respectively this should be again covered with 14 mm thick U foam (high density) shall be covered with hessian cloth and upholstered with Rexin cloth or any other cloth in a design as directed. Basic rate of the Lather cloth shall be Rs. 750 Rmt. Sofa shall be supported on S.S legs.All the visible members shall be laminated plywood. Sofa shall be shape as shown in drawing				
[a]	Two/Three seated Sofa For Customer [2000 mm Long/1350mm] With Armrest	RMT	6		
36	Providing & Fixing Nylone plank form Carpet Aspen & facade of Welspun company with machine guage 1/10 as in plank form size 250 x 1000 mm backing Type. Welspn ecolite basic Rs. 120 per Sft.	0	SMT		
37	Providing and Fixing Frosted polyster film of 3M (Scotchcal 7725 - 324) or equivalent make over glass surfaces as per drawing & direction with all labour & materials to the satisfaction of the Architect/Bank as per manufacturer's specification.	21	SMT		
38	Providing and fixing ACP Trap door in false ceiling for maintaining A.C indoor units with Aluminium frame work of 35 x 35 with proper hanging from RCC. Providing necessary hinges and locking arrangement as directed.	6	SMT		

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	Thickness of Tiles 5.50mm 4 mm 12 mm 12 mm 9 mm MDF/				
	12mm PPB				
	Tiles:				
	Tiles shall be Pre-laminated MDF or Particle Board. Each Work Surface shall be provided with one Magnetic board Tile and one Writing board tile with marker laminate instead of normal laminate.				
	Magnetic Board				
	Magnetic Board shall be made up of 0.25 mm thick GI sheet over particle /MDF board to match up with the thickness of other tiles or shall be made out of 0.80 mm thick GI sheet if Particle board / MDF board is not provided as base. The magnetic board shall be covered with fabric of approved shade & finish				
	Work surface:				
	Work Surface shall be L-shaped (1500mm x 1500mm, 600mm wide) in approved profile made out of 25 mm thick pre-laminated particle board with PVC Cable manager and shall be fixed to the partitions with suitable joinery / hardware and side ends supported and fixed to Gables made out of 25mm thick Prelaminated Particle Board. All exposed edges of Work Surface & all the edges of Gables to be provided with 2 mm thick PVC edge bending.				
	Pedestals: (For Each Work surface)				
	The pedestal unit shall have overall outer dimensions as 400 Wx450 Dx680 H mm and outer box & Drawer Fascia made out of 18/19mm thick prelaminated Particle Board. The drawer unit shall have 2 box drawer & 1 Filing drawer. The sides of drawers be made of 0.80 mm thick CRCA/MS sheet & Bottom / base and back of drawers shall be of 12 mm thick pre laminated particle board. The filing drawer to fitted with Telescopic sliding channel & Box Drawers with Roller Slides of self-closing action with central locking system and 100 mm long brush finish Stainless Steel handles for each drawer. All the edges of Drawer Fascia be provided with 2 mm thick edge bending				
	Keyboard Tray : (For Each Work surface)				
	Keyboard tray (510x240mm internal dimension) is made up of 0.8mm thick CRCA sheet fitted on telescopic channel and soft pad of PU material mounted on front edge				
	CPU trolley: (For Each Work surface)				
	Made out of 0.8mm thick CRCA sheet with adjustable width arrangement and mounted with 04 Nos. lockable nylon castor				
	Notes:				
	(1) One work surface with partition etc shall be considered as one work station				
	(2) The layout of work stations shall generally be as per enclosed layout however it is subject to change & deviation				
	(3) Neither additional payment nor any deduction shall be made for common partition / Gable or independent partition / Gable to the work surface				
2	Table Size: 1650mm x 675mm & 750mm height	No	6		

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Sr.No.	Description	Unit	Quantity	Rate	Amount
	Providing & Fixing table having Top Post formed on two long side / edges & made out of 25 mm thick prelaminated particle board (PLB) provided with cable manager. Gables & Modesty Panel shall be of 25 mm & 18 mm thick Pre-laminated Particle Board respectively. All the edges of Gables & Non-post formed edges of top shall be provided with 2 mm thick PVC edge bending				
	Pedestals: details same as item No-1 above				
	Keyboard Tray : details same as item No-1 above				
	CPU trolley: details same as item No-1 above				
3	Table: Size: 1350mm X 675mm & 750mm height	No	9		
	Description same as item No 2 above				
4	Low Ht. Storage (SIDE CREDENZA)				
	Providing and fixing low height storage unit made out of Pre laminated particle board (PLB) with divisions and shelves as per drawing. Top shall be 25 mm thick PLB one long side edge post formed and Bottom shall be 25 mm thick PLB and shutter shall be 18 mm thick pre laminated MDF board two vertical sides edges half round post formed. Back shall be 9 mm thick PLB and all other sides and shelves etc. shall be of 18 mm thick PLB. The shutter be provided with auto close hinges (Hetich, Ebco or Approved make), 100 mm long Brush finish SS handle, Multi purpose cup board group lock (Godrej, Ebco, EGL or Approved make). The edges of Top and Shutters not post formed to be provided with 2 mm thick PVC edge bending				
[a]	Side storage cup board Size 900 x 450 (top) x 750 mm Ht. With 2 Nos. Drawers & Shutter (Partly Drawer & Partly Openable shutter) For Officers	No	6		
[b]	Side storage cup board Size 975 x 450 (top) x 750 mm Ht. Without drawers Only openable shutter	No	9		
5	Low Ht. storage (ht. 750mm) Top 25 mm th pre laminated particle board, side and shutters 18mm th pre laminated particle board back 9mm th pre laminated particle board. All exposed area with 2mm th PVC edge handing liping. Fomger grppve SS handles and locks shall be provided in shutters.	SMT	20		

TOTAL COST OF "B"

Note:

- Execution Drawings shall be prepared by the contractor in consultation with the Bank & Architects and shall be submitted to them for approval. Work will be executed as per Design, Drawing, Specifications, samples etc. approved by Bank and Architect.
- All Pre-laminated particle board (PLB) and Prelaminated MDF Board (PMDF) shall be of Exterior grade

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3	Unless otherwise specified all edges of PLB or PMDF shall have 0.8 mm thick PVC edge bending of matching colour/shade. PLB used in Groove Type Partition System & Storage Shelves / dividers shall also be provided with 0.45 mm thick PVC edge bending				
4	All pre-laminated boards shall be pre-laminated with approved laminate on both sides / surfaces. However for the side / surface specified as non- visible, the balancing laminate is to be used. Shade / finish pattern of Laminate shall be got approved by the Bank & Architects.				
5	All CRCA / MS / Aluminium extrusion Sections / Joinery etc shall be provided with 40-60 Micron Powder Coating in shade & finish as approved				
6	Exact Measurements as per site conditions & Architect's instructions shall be taken particularly for Storage units by the contractor and shall be provided accordingly.				
7	Hardware to be used shall be Hettich, Dorma/Hozon/Ebco				

S U M M A R Y

[A]	FURNITURE WORK	_____

[B]	MODULAR FURNITURE WORK	_____

	TOTAL OF [A] + [B]	_____

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
NOTE : ALL CHARIS OR CHASES IN WALLS / COLUMNS / SLABS MADE BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF CONDUITS / S.B. / BOXES ETC. THE FILLING OF THE SAME IS IN THE SCOPE OF THE ELECTRICAL CONTRACTOR INCLUDING ALL NECESSITY MATERIAL AND LABOUR.					
1	Supply installation testing and commissioning of Elect. Power IP42 Protection double door type distribution boards of 18 G CRCA sheet steel mounted on angle iron frame grouted on wall, complete with copper bus bars for phase neutral and earth DIN rails for MCB/ELCB and connector, terminal blocks mounting, dully wired with suitable size PVC insulated copper wire, terminations with lugs and chrome plated brass compression glands for incoming and outgoing wires and cable as under.				
[a]	VTPN, MCB DB for UPS Input Incoming 100 A 4 - Pole MCCB-1 No Outgoing 3 Pole 63/80A - 2 Nos. 1 Pole 32/40A - 6 Nos.	1		No.	
[b]	SPN, MCB DB for UPS Output 2 Pole 40/63A - 2 Nos. 2 Pole 16/25A - 2 Nos. (1 For Server + 1 For CCTV, Fire, Security Alarm System)	1		No.	
[c]	SPN MCB DB for UPS Output Ckts Incoming 63A 2 Pole 100mA RCCB - 1 No. Outgoing 10 A SP MCB - 10 Nos.	2		No.	
[d]	TPN MCB DB for A. C Incoming 63 A 4 Pole RCCB 100 mA sensitivity - 1 No. Outgoing 6/10/25 A DP MCB G 12 KA - 9 Nos.	2		No.	
[e]	TPN MCB DB for Lighting Incoming 40 A 4 Pole MCB - 1 No. Outgoing 32A / 40A 2 Pole 30mA RCCB - 3 No. 6/10 A SP MCB 10 KA - 12 Nos.	2		No.	
[f]	TPN MCB DB for Raw Power Incoming 63 A 4 Pole MCB - 1 No. Outgoing 32A / 40A 2 Pole 30mA RCCB - 3 No. 6/10 A SP MCB 10 KA - 12 Nos.	1		No.	
[g]	VTPN MCB DB for Cassette AC Incoming 100 A 4 Pole MCCB - 1 No. Outgoing 32/40/63A TP MCB - 8 No.	1		No.	
[h]	SITC of 25 A / 32A / 40 A / 63 / 100A FP ELCB, 100 mA (C - Curve) with powder coated compny made metallic double door sheet stell enclosure complete For three phase 3.0 / 5.5 / 8.5 TR VRF / DUCTABLE / CASSETTE AC units. This will be executed near trap door of indoor unit at reachable height. (as per IP 65 protection). THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	7		No.	

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Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
2	Supply, installation, testing and commissioning of power control panel cubicle type made of 16 G sheet steel painted by seven tank method and powder coated, pedestal (Floor or Wall) mounting type having cable alley and switchgears under. Panel should be as per the specifications of ERDA/CPRI. fabrication, Switch gear installation. Internal wiring and Test Certificate from Manufacturer to be submitted. - All MCBs must be C Type Characteristic. Panel Drawing Need to be approved by Electrical Consultanat / Bank's Engineer before starting work.	1		No.	
	MAIN PANEL: Incoming: 200 A FP MCCB (1 No.) as Incoming. (1 No.) with ELR including Bypass Facility * 200 A, FP Change over switch (1 No.). * 250 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length - Current ratio shall be 1 sq mm = 1.2 A. * Digital AVF Meter with control fuses. C.T. shall be of 15VA class 1 type and shall be resin cast type. * Phase indicator lamps phase wise. * Outgoing feeder: * 25 A DP MCBS (1 no - SERVER AC) * 25 A DP MCB (2 no - SIGN BOARD + 1 SPARE) * 100 A FP MCCB (2 NO - UPSDB & CASST. AC DB) * 40 A FP MCB (2 NO - LDB) * 63 A FP MCB (3 NO - AC DB & PDB) * 32/40A FP MCB (2 NO - SPARE) * 63A FP MCB (2 NO - SPARE)				
3	Providing and Installing of 250 A FP MCCB with hinged door & locking arrangement duly fabricated from 18 SWG sheet metal box duly painted with one coat of red-oxide paint and two coats of approved enamel paints with Phase indicator lamps phase wise, control fuses & wooden back complete.	1		No.	
4	Supply and installation of stranded aluminum/cu. conductor. XLPE Insulated IS approved and marked sheathed and insulated 1.1 KV grade armoured cable on wall with saddles on 20/25 x 3 mm				
[a]	M.S strips gouted on wall, spaced one mt. - Do - but 3.5 x 120 Sq.mm Aluminum cable. [For MCCB to Main Panel Board]	75		Rmt	
[b]	- Do - but 4 x 16 Sq.mm Cu. Ar. cable. [For Panel to AC DBs]	65		Rmt	
[c]	- Do - but 4 x 10 Sq.mm Cu. Ar. cable. [For Panel to Ductable/VRF Unit, UPS Input, Raw P. DB]	45		Rmt	
[d]	- Do - but 4 x 6 Sq.mm Cu. Ar. cable. [For Panel to LT DBs]	60		Rmt	
[e]	- Do - but 4 x 4 Sq.mm Cu. Ar. cable. [For AC DB to Casst. AC OD Unit]	140		Rmt	
[f]	- Do - but 4 x 10 Sq.mm Cu. Fle. cable. [For UPS Input & Output]	15		Rmt	
[g]	- Do - but 3 x 10 Sq.mm Cu. Fle. cable. [For UPS Input & Output]	15		Rmt	
[h]	- Do - but 3 x 2.5 Sq.mm Cu. Fle. cable. [For AC Indoor Unit if Reqcd.]	130		Rmt	

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
[i]	- Do - but 50 Sq.mm Copper Flexible cable [For Main MCCB to Meter]	20		Rmt	
5	Cable end terminations of aluminum armoured cable, with compression type cable glands and lugs.				
[a]	- Do - but 3.5 x 120 Sq.mm Aluminum cable	2		No.	
[b]	- Do - but 4 x 16 Sq.mm Cu. Ar. Cable	4		No.	
[c]	- Do - but 4 x 10 Sq.mm Cu. Ar. Cable	6		No.	
[d]	- Do - but 4 x 6 Sq.mm Cu. Ar. Cable	2		No.	
[e]	- Do - but 4 x 4 Sq.mm Cu. Ar. Cable	10		No.	
[f]	- Do - but 4 x 10 Sq.mm Cu. Fle. Cable	2		No.	
[g]	- Do - but 3 x 10 Sq.mm Cu. Fle. Cable	2		No.	
[h]	- Do - but 3 x 2.5 Sq.mm Cu. Fle. cable.	10		No.	
[i]	- Do - but 50 Sq.mm Copper Flexible cable	8		No.	
6	Providing and making Earthing Pit with all necessary material and making masonry kundi, watering arrangement etc complete as per ISI 3043-1987 (FOLLOWING ITEMS MAY OPERATE). Resistivity as per IEC / IS. (3 years Manufacturer Warranty. Earthing Certificate Need to Attached). (At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Rod Photo Must be attached with Bill.).				
[a]	ECO SAFE environment friendly electrical grounding system with T-193-Hot Dip Galvanised, having 50mm dia. of outer pipe and 25 mm dia. of inner pipe and length of 3mtrs with 50kg Back Fill Compound as per UL 476, of Powerfill Eco friendly electrical grounding backfill compound and clamp (DB - PANEL) - G. I. -(Chemical GI Earthing) ERDA & NSIC approved, E link or ETP MAKE or ASHLOK MAKE. Any other make will not be consider. (DB - PANEL) .	2		No.	
[b]	ECO SAFE environment friendly electrical grounding system with T-193-Copper electrode used upto 11 KV, having 50mm dia. of outer pipe and 25 mm dia. of inner pipe and length of 3mtrs with 50kg Back Fill Compound as per UL 476, of Powerfill Eco friendly electrical grounding backfill compound and clamp (UPS) - Chemical CU Earthing) ERDA & NSIC approved, E link or ETP MAKE or ASHLOK MAKE. Any other make will not be consider. - Cu. (UPS) .	2		No.	
7	Supply, laying and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary PVC Pipe, non rusting clamps, washers, nuts and bolts etc complete.				
[a]	25 x 3 mm G.I. Strip - From G. I. Earthpit to Main Panel	90		Rmt	
[b]	6 sq. mm. Cu. Fle. Wire For Main MCCB & DBs	140		Rmt	
[c]	10 sq. mm. Cu. Fle. Wire For UPS DBs	140		Rmt	
[d]	S & I of Main bus for isolated earth comprising of 200mm x 40mm x 6mm thick copper bar fixed on insulated support and having 20 nos of holes and nut bolts studs for clamping the earth leads,all contained in MS/PVCbox of size 300mm x 200mm x 50mm deep and having transparent acrylic cover as approved by Bank / Architect.	1		Set	

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
8	GENERAL POINT WIRING				
	<p>INTERNAL WIRING : Phase wire must be Red colour for LDB, Yellow colour for PDB & Blue for ACDB, Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.</p> <p>P and M point wiring in concealed in walls, furniture's & for above false ceiling, or on ceiling, on beams shall be fixed with saddles & spacers etc., with conduits taken in slab with 20 mm dia PVC Rigid conduits 1.5 mm thick ISI mark with 2 nos. of 1.5 sq. mm. phase & nutral & 1 nos. of 1.0 sq. mm. earthing with modular switch with company made flush metal box/surface PVC box etc. comp. with nec. main lines for switch board from LDB of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor wire FRLS type laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark .These will be used with point wiring of light, fan, ex. fan, callbell points, etc { Max. 3 Switchboards in one circuit - One Sp MCB }</p>				
[a]	- Do - as per Item No. 10 for 1 Nos. of light point controlled by 1 No. of 5 Amp modular switch and plate with phase Neutral & earth wires.	98		No.	
[b]	Extension light point without control switch.(Loop Point)	68		No.	
[c]	- Do - for Fan point including SP modular switch, 5 Step hum free Electronic regulator, terminal box with hook for fan suspension from roof and plastering the opening. hooks to be used.	4		No.	
[d]	- Do - for wall fan.	24		No.	
[e]	- Do - for Exhaust fan.	7		No.	
[f]	Bell point with bell push and ding dong bell all diff. type	7		No.	
[g]	Sign board point with 2 x 4.0 sq.mm + 1 x 2.5 sqmm earth wire circuit from main panel to sing board at entrance with suitable junction box and 3 point connector.	1		No.	
9	PLUG POINT				
9 [a]	- Do - as per Item No. 10 for 1 No. 5 pin 5 Amp socket controlled by 5 Amp SP switch. Both are mounted on the same Lighting switch board with necessary inter connection & earthing the earth pin.	28		No.	
10	<p>COMPUTER POWER SUPPLY:</p> <p>Phase wire must be Yellow colour for UPS O/P DB, Red colour for PDB , Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done. Providing and fixing computer Terminal Board providing 3 No 5 pin 6 Amp plug socket outlet controlled by 1 Nos. 16 Amp modular SP switches with light indicator as switch board with independent power supply from UPS unit,[Fixing 15 A switch above Table on Side partition/Wall and 3 Nos Socket Below Table] including internal wiring with 1.5 Sq.mm PVC copper wire and PVC Pipe. Modular Switch, Socket Plug, Plate Cover, Box etc. complete as directed. Including 2 x 2.5 sqmm + 1 x 1.5 sq mm earth circuit from DB for computer power. (Three boards in one circuit)</p>	70		No.	

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
11	- Do - as per Item No. 12 for 1 No. 5 pin 6 Amp power socket with modular SP switch and 1 No 16 Amp Power socket outlet controlled by 1 No 16 Amp modular switch with indicator including circuit wiring. 4 to 5 boards in one circuit for raw power.	66		No.	
12	- Do - as per Item No. 12 for 1 No. 3 pin 15 Amp power socket outlet controlled by 15 Amp modular switch with indicator including circuit wiring 2 x 2.5 sqmm + 1 x 1.5 sqmm for earth from TPN DB.	6		No.	
13	SITC of 20 A/ 25 A, 230 V, with DP MCB all enclosed in a prefabricated M S boxes complete to the satisfaction of E.I.C. For CASSATTE IDU AC 1.00/1.50/2.0TR / 3.0 TR unit with necessary	11		No.	
14	Supply and installation of Telephone terminal with jack socket RJ 11 connection on suitable modular junction box. Including 2 pair telephone wire in FIA rigid PVC conduit concealed in wall/floor from Krone to Telephone point, including necessary junction boxes etc. complete as directed. Make connection in krone box.	60		No.	
15	Supply and installation of Krone tag block in suitable covered M.S Box installed on angle iron frame grouted on wall of size as under.				
[a]	50 Pair	2		No.	
16	Supply and installation of Telephone cable armoured/Jelly PVC insulated cable of tinned high grade electrolytic copper wires in PVC Pipe, on wall with proper saddles of following size. Delton make.				
[a]	50 Pair 0.5 mm insulated.	60		Mtr.	
17	Supply and installation of Heavy duty HDMI cable as required	80		Mtr.	
18	SITC of CABLE TV RG - 6 cable line in PVC Conduit pipe with proper fixing and connecting with modular Co-Axial TV Socket	120		Mtr.	
19	Additional cost for SITC of the 8 Modular POP UP Box with required accessories of Legrand or equivalent make as per approved make etc complete as directed on Conference Table	9		No.	
20	Supply and installation of 6" dia speaker 6 to 8 W on ceiling including music wire circuit 2.0 x 1.0 sqmm copper wire in FIA rigid PVC 1.5 mm thick MMS conduit. 3 to 4 speaker per circuit.	27		No.	
21	SITC of 150 Watt PA system with control desk comprising 1 nos. of microphone with press to talk switch and stand (Ahuja Make), selector switch, mixing amplifier 130 -150 watt(AHUJA Make SSB-120 DP), Digital player: MP3 player with USB Reader & Remote control cables with sockets, interconnections, earthing complete as required. Make: Ahuja/Boss	1		No.	
22	Supply and installation of 24 Hr., 7 days A.C. timer with 2 NOS. power contector of M.D.S, L & T, SEIMENS , THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure complete with all necessary termination for system room A.C. with use of end connectors, push button switches, LED indicators for two ACs. - this should be fixed near main panel. - server AC units. Ready made Cyclic Timer Will not be permitted.	1		No.	

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
23	Supply and installation of Timer of L & T make Cat. No. 67DDTO digicom Timer with 16A. 4P contactor / Theben make Cat no. SUL 180 a - T180 0 001 ANALOG Timer with L & T make contactor MNX 18 (operating coil voltage 230V, 50 Hz). (24 hrs).- 1 No for signage light.	1		No.	
24	Supply and installation of 300 x 300 x 40 mm size GI box duly fabricated from 18 SWG m.s. sheet with top cover of s. s. sheet complete with necessary knock outs at all the sides of box for conduit entries duly fixed in floor, including breaking in floor and re-finished the same etc. complete (Wire Draw Box)	12		No.	
25	Supply and installation of 150 x 150 x 40 mm size GI box duly fabricated from 18 SWG m.s. sheet with top cover of s. s. sheet complete with necessary knock outs at all the sides of box for conduit entries duly fixed in floor, including breaking in floor and re-finished the same etc. complete (Wire Draw Box)	22		No.	
26	Supply & laying of the empty conduit . - 40 mm. used for GI strip in flooring for HDMI + VGA cable including cutting in flooring and refinishing the same as reqd.	30		Mr.	
27	Supply and fixing of 1.1 KV grade 12 mm thick 1000 mm x 1000 mm rubber insulating mat.	2		No.	
28	Laisoning work (addition Load) with Electric supply Co. in branch/ro & approval and necessary certificate.	1		Job	
29	TEMPORARY CONNECTIONS: Providing Necessary plug points & light points for tube lights (including necessary wiring) at various locations as required by various contractors for execution of various works / to run equipments such as drill / cutter etc. during the entire execution process. The accessories used for this purpose shall be of temp. nature (anchor piano or eq.) & the contractor has to take back the same on completion of the project. The supply for this shall be taken from the temporary connection provided at / from nearby general meter under co.ordination with the LANDLORD.	1		Job	
TOTAL COST OF "A" Rs.					
[B] SUPPLY & FIXING OF LIGHTING FIXTURES					
(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULANTS BEFORE ORDERING THEM.					
1	Supplying and providing 'LED 1*36 watt (2*2') RECESS MOUNTED LUMINAIRE with making earthing connection complete to be recessed in false ceiling with all necessary hardwares, hanging frame arrangement, chains, B77 hook etc., complete. (with minimum -03- Years warranty)	40		No.	
2	Supplying and providing of 6"/9" dia. of 15 W LED Downlighter to be recessed in false ceiling with all necessary hardware, chains, hook etc., complete. (with minimum -03- Years warranty)	54		No.	
3	Supplying and providing of 10/20 W LED tube light 2/4 Ft. long with white diffuser cover batten type, 230 V, 50 Hz duly wired and tested. (with minimum -03- Years warranty)	16		No.	
4	Supplying and providing of LED Strip light with reqd. driver	40		Mtr.	

BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND REGIONAL OFFICE, ANAND					
Sr. No.	Description	Qty	Rate	Unit	Amount
ELECTRICAL WORK					
5	Supplying and providing of 65 watt of 900/1200 mm Ceiling Fan with double ball bearing, fan step modular regulator, Max. 3 feet Fan Rode, Anchor Fastener, etc. (White Colour) (with minimum -01- Years warranty)	4		No.	
6	Supplying and providing of 300 mm Exhaust fan, fresh air ventilator type with louver complete & 6 Amp. 3 pin TOP, double ball bearing etc. [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor] (with minimum -01- Years warranty)	7		No.	
7	Supplying and providing of 16" dia. Wall Fans Fitting	24		No.	
8	SITC of Al. body Profile Light (20mm to 32mm size) concealed, surface & hanging type with inbuilt LED Strip, driver & all accessories also. (wipro make or philips / orient or equivalent co. make). (Approved by Architect). To be install at walls/partitions/ ceiling which include all labours, tools etc.	95		Mtr.	
9	Supply of decorative Light Fittings [The payable amount shall be certified based on basic cost of the purchase bills plus quoted %age on the purchase bills] Philips or equivalent as approved by architect 6500 x 10% = Add 10% Profit on Purchase bills	4		LS	
TOTAL COST OF "B" Rs.					
[C] DATA CABELLING WORK					
1	Providing data cable information out let AT & T, lucent, D Link Brand, Molex make point connection with RJ-45 connector, junction box with cover in making connection etc complete as directed. Including 'Supply and installation of computer data cable CAT-6 of AT & T, lucent, D Link Brand, Molex make including PVC pipe 25mm dia 1.5 mm thick, recessed in counter necessary, ceiling, wall .include RJ 45 connector on both end etc complete as directed. The conduit to be concealed in wall or floor by cutting, laying conduit replastering and coloring to match the wall or floor color	76		No.	
2	Supply and providing Cat-6 patch cord wire of AT & T, Lucent, D Link, Molex Make with RJ-45 connection on both and connector (2.0 mt. Long). Factory built	76		No.	
3	- Do - as above but 1.0 mt. Factory built	76		No.	
4	Supplying of 24 port Cat - 6 complete as directed.	4		No.	
5	Supplying of 24 network switch complete as directed.	4		No.	
6	Supplying of 24U Rack with Floor mounting with wheel & lockable door with following accessories complete as directed. Tray - 6 + Mounting Fan - 2 + power strip - 2, cable manager - 4 (make : D Link / Digi Link / Elixer).	1		No.	
7	Supply and installation of computer data cable CAT-6 of AT & T, lucent, D Link Brand, Molex make including PVC pipe 25mm dia 1.5 mm thick, recessed in counter necessary, ceiling, wall .include RJ 45 connector on both end etc complete as directed..The conduit to be concealed in wall or floor by cutting, laying conduit replastering and coloring to match the wall or floor color	280		Rmt	
8	Installation of Rack, Patch panel, 24 port switch including patch panel connection inspection and testing and commissioning complete as	1		Job	
TOTAL COST OF "C" Rs.					

**BILLS OF QUANTITIES FOR ELECTRICAL, DATA NETWORKING WORKS AT BANK OF BARODA, ANAND
REGIONAL OFFICE, ANAND**

Sr. No.	Description	Qty	Rate	Unit	Amount
	ELECTRICAL WORK				

TOTAL COST SUMMARY

[A]	ELECTRIFICATION WORK				
[B]	SUPPLYING OF LIGHTING FIXTURES				
[C]	DATA CABELLING WORK				
	TOTAL COST OF ELECTRICAL WORK [A+B+C]				

GST Extra

BILLS OF QUANTITIES FOR OF VRF SYSTEM FOR BANK OF BARODA ANAND REGIONAL OFFICE, ANAND					
SR. No.	Description of Item	Unit	Qty	Rate	Amount
				Rs.	Rs.
A)	PART 'A'				
I	Variable Refrigerant Volume (VRV/VRF) System				
1	Supply, Installation, Testing and Commissioning of Variable refrigerant volume type air-conditioning system suitable for cooling using 100 % Fully Inverter compressors based of R- 410A refrigerant gas complete as per specifications with the condensing unit shall be complete with refrigeration compressors, condenser coils, electronic expansion valve, solenoid valves, 4 way valve, shut down valves, service ports, accumulator and all other components which are essential for safe and satisfactory operation of the system				
	The ODU shall have maximum external static pressure 80 Pa to achieve installation flexibility. ESP must be selectable in minimum 3 steps to select as per requirement to optimize energy, capital cost, building aesthetics & noise level. Outdoor unit heat exchanger coil should be accommodated within 3 sides of outdoor unit. The 4th side to be freely available for ease of maintenance and safety of the person.				
	VRF system shall have auto Restart function i.e. In case of power failure, units should restart automatic when power resume.				
	VRF system shall have auto bypass i.e. If any one IDU have any electric or PCB failure, rest of the system should continue to operate.				
	The VRF system shall have free phase technology, which shall correct phases automatically in case of phase reversal.				
MAKE: DAIKIN/ HITACHI /MITSUBISHI ELECTRIC /MITSUBISHI HEAVY /O GENRAL					
1.1	Supply of Outdoor Unit				
1.1.1	Supply of 24 HP Unit	Nos.	2		
1.2	Supply of Indoor Unit				
a	4 Way Round/Reguler Flow CASSATTE TYPE Indoor Unit with fittings, Consisting of fan, Four speed motor, Panel, coil section with DX coil, outer cabinet, filter, insulated drain pan (with inbuilt drain pump), provision for fresh air, Including all accessories etc.				
1.2.1	4.0 TR CASSETTE UNIT	Nos.	3		
1.2.2	3.2 TR CASSETTE UNIT	Nos.	1		

BILLS OF QUANTITIES FOR OF VRF SYSTEM FOR BANK OF BARODA ANAND REGIONAL OFFICE, ANAND					
SR. No.	Description of Item	Unit	Qty	Rate	Amount
				Rs.	Rs.
1.2.3	2.0 TR CASSETTE UNIT	Nos.	1		
b	Hi Wall Split Typr INDOOR UNIT withIncluding all accessories etc.				
1.2.4	2.0 TR HI-WALL TYPE SPLIT UNIT	Nos.	5		
1.2.5	1.5 TR HI-WALL TYPE SPLIT UNIT	Nos.	2		
c	In the Ceiling Type INDOOR UNIT withIncluding all accessories etc. (High Static Model)				
1.2.6	Total 10 TR In The Ceiling TYPE Concealed UNIT	Nos.	2		
1.3	CORDLESS REMOTE CONTROLLER with Receiver kit				
1.3.1	CORDLESS REMOTE CONTROLLER with receiver kit for Cassette, Hi-Wall Splitc & Ductable Type Unit	Nos.	14		
1.4	REF NET joints and Accessories				
1.4.1	Ref-Net joints and Accessories for IDU & ODU	Pair	13		
1.5	Supply and Installation of Drain Pump for Split AC	Nos.	2		
TOTAL PART 'A'					
B)	PART 'B'				
1	Refrigerant Piping and Ref Joint				
	All detailed drawings should be made by the vendor as Mfg. Company norms. Work shall be started after the submission of the drawing by the authorized person of Mfg. Company with covering letter				
	Supply & Installation of interconnecting Refrigerant copper pipe size approved by O&M Comapny, insulated with 19 mm thick closed cell electrometric nitrile class 'O' type rubber tubular insulation between each set of indoor & outdoor units ,all piping inside the room shall be properly fixed/supported with suitable size of clamp/ M.S. hanger and all external/ exposed to sun piping shall run in M.S. painted cable tray etc. as required.				
2.1.1	Supply and Installtion of approved Copper Pipe with Insulation as per the specifications	RMT	350		
2.1.2	Installation , testing and commissioning of All REF NET joints and Accessories with insulation for above VRF/VRV System (All the Insulation joint must be covered with aerotape.)	lot.	1		
2	Drain Piping				

BILLS OF QUANTITIES FOR OF VRF SYSTEM FOR BANK OF BARODA ANAND REGIONAL OFFICE, ANAND					
SR. No.	Description of Item	Unit	Qty	Rate	Amount
				Rs.	Rs.
2.2.1	Supply & Installation of 32/25/19/12 MM Rigid UPVC piping complete with fittings and supports	RMT	150		
3	<u>Control & Transmission Wiring</u>				
2.3.1	Providing & fixing control cum transmission wiring of 3 core x 1.5 sqmm Shielded/Seathed flexible control cable between indoor and outdoor unit as per the specifications with necessary supports and shall be run in pvc conduit.	RMT	360		
4	<u>MS Stand for Outdoor Units</u>				
2.4.1	M.S Structure duly epoxy painted for installing above VRF outdoor unit , TFA , Split and TFA ODU/Condensor unit on MS HEAVY STRUCTUE With MIN. 75 x 40 mm Channel with Angle and Supports including if Scaffolding at Terrace Only	KG	250		
5	<u>Installation, Testing & Commissioning of VRV System</u>				
	Handling, lifting & shifting, and installation of all indoor & outdoor units at the site with required anchor bolts, gi threaded rod, etc. As per the site requirement and approved drawing by architect/consultant				
	Pressure testing of complete copper piping network @2 times of working pressure for 24 hours to ensure leakproof piping				
	Reqd. Refrigerant gas charging & topping up as per indoor, outdoor capacity, additional copper piping (additional gas charging sheet should be attached in handing over the report)				
2.5.1	Outdoor Units of 24 HP with all connected indoor Units as per Approved Drawing	lot.	2		
6	<u>Ducting Work</u>				
	Air distribution ducting made out of G.I. sheet including collars, class VIII conforming to IS 655 including supports, bracing, flanges, turning vanes, fasteners, rivets, gaskets, nuts & bolts, etc. complete at every 2.4 m c/c & at bends etc. as per specifications.				
2.6.1	0 - 750 mm : 24 Gauge (Rectangle Duct)	SQMTR	140		
2.6.2	Plenum : 22 Gauge (Rectangle Duct)	SQMTR	25		
7	<u>Insulation Work</u>				
2.7	Supply & Installation having 19 mm thick closed cell nitrile class 'O' rubber insulation with aluminium sheet/foil on Supply/Return Ducting	SQMTR	165		
8	<u>Accoustic Work</u>				

BILLS OF QUANTITIES FOR OF VRF SYSTEM FOR BANK OF BARODA ANAND REGIONAL OFFICE, ANAND					
SR. No.	Description of Item	Unit	Qty	Rate	Amount
				Rs.	Rs.
2.8	Duct Insulation applied inside of duct work with 25mmmm thick rigid fiber Glass 48 Kg/Cum density covered with RP tissiue and finished with 26 G Al./GI perforated sheet or equivalent Accoustic.	SQMTR	25		
9	<u>Supply / Return Air - Diffuser/Grille</u>				
2.9	Supplying and fixing of supply air square diffusers of powder coated aluminium with OBD (aluminum volume control collar damper anodized in matt black shade) as per specifications complete as required.	SQMTR	10		
10	<u>Volume Control Duct Damper</u>				
2.1	Supply, installation, testing and balancing of galvanized steel construction opposed blade volume control duct dampers, blades & casing both to be of as per approved drawings and specifications.	SQMTR	1		
11	<u>Canvass Connection</u>				
2.11	Supply and Fixing of flexible Rexin connection	SQMTR	2		
12	<u>Civil Work</u>				
1.12	MISC. CIVIL WORK LIKE WALL JURRY, WALL / SLAB / BEAM CUT OUTS TO PASS DUCTS & PIPES AND RE FINISHING OF THE SAME TO THE ORIGINAL FINISH	lot.	1		
	TOTAL PART 'B'				
	Total PART 'A + B' Excluding GST				
	<u>Total Cost (in Words)</u>				

SEAL AND SIGNATURE OF CONTRACTOR

TOTAL COST S U M M A R Y

[1]	[A] FURNISHING WORK	Rs.	
	[B] WORK STATIONS	Rs.	
[2]	ELECTRIFICATION WORK INCLUDING LIGHTING FIXTURES	Rs.	
[3]	AIR CONDITIONING (VRV/VRF) SYSTEM	Rs.	
		TOTAL COST	Rs.

TOTAL COST IN WORDS

GST SHALL BE PAID EXTRA AS PER GOVERNMENT GUIDELINES

SEAL AND SIGNATURE OF CONTRACTOR