

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
COST ESTIMATE / BILL OF QUANTITIES (ATM AIR-CONDITIONING WORKS)					
NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
VII	ATM AIR-CONDITIONING WORKS				
1	Supply and installation of 1.5 TR Capacity high Wall Split Air Conditioner 5 Star Rated (voltas/carrier / blue star/Samsung) including 4KVA Voltage stablizer installation of out door units complete including all civil Works	2	Nos		
2	Supply and installation of Ms (Mild Steel) cages made of 1/2" x 1/2" Ms square bars for out door unit size 3' - 6" x 2' - 6" including civil works and open arrangement in top and painting with 2 coats of synthetic enamel paint over a primer coat	2	Nos		
3	Supply & Laying of PVC Drain Piping for Split AC Units	3	Mtrs		
4	Supply and installation of 3/4" dia additional copper piping	3	Mtrs		
5	Supply and Installation of 3C x 4.0 sqmm communication cable.	6	Mtrs		
6	Supply and installation of 0-24 hr cyclic timer along with 25A 2pole air break contractors with MS box	1	Nos		
	TOTAL				

**CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING
AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)**

SUMMARY

SL.NO	PARTICULARS	AMOUNT (Rs.)
1	BRANCH INTERIOR WORK	
2	BRANCH ELECTRICAL WORKS	
3	BRANCH AIR-CONDITIONING WORKS	
4	ATM ELECTRICAL WORK	
5	ATM AIR-CONDITIONING WORKS	
6	CCTV WORKS	
7	FIRE ALARM SYSTEM & BURGLAR ALARM WORKS	
	TOTAL	

Amount in words :

ALL RATES ARE EXCLUSIVE OF 18% GST

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
PROPOSED ADDITION AND ALTERATION FOR PUNJAB & SIND BANK, CHENGALPATTU					
Sr. No	Descripton	Unit	Qnty	Rate	Amount
	INTERIOR WORKS				
1	FULL HEIGHT & HALF HEIGHT SOLID PARTITION				
	Providing Full height partitions of height made of of 2"x2" Aluminum frame work finished with vertically at every 600 mm c/c and horizontal frame at bottom, 3'0" level, 1'6" level and 9'0".The frame work to be cladded on both sides with 6mm thick commercial plywood and finished with 1 mm thick decorative laminate. The partition to be provided with TW skirting of size 3" x ¾" on both sides and finished to desired wood effect by application of melamine polish after initial surface preparation.The rate also includes supply, fabrication, fixing with all necessary accessories all with brass finish and other hardwares. The work to be completed as per design and approval of the Architect.	Sft	466.00		
2	FULL HEIGHT PARTITION WITH PARTLY GLAZED				
	The partition with 8mm thk. clear float glass with etching (as per design) shall be provided above 3'-0" from GFL upto 7'-0", embedded into partition with 1 1/4" thk white beach or white ceader wooden moulding with natural polish for both sides.1/2" X 3" high white beach wood skirting as per design should run along with the entire bottom length of partition on both sides with natural polish.(Rate to calculated upto False ceiling Ht. The rate also includes supply, fabrication, fixing with all necessary accessories all with brass finish and other hardwares. The work to be completed as per design and approval of the Architect.	Sft	78.00		
3	Full Height Partition -Fully Glazed				
	Supplying and fixing of 12 mm thick toughened glass partition with all necessary patch fittings, brackets, and accessories, complete in all respects with installation, alignment, and finishing as per direction of Engineer-in-Charge.	Sft	133.00		

Sr. No	Descripton	Unit	Qty	Rate	Amount
4	Providing and fixing of plyboard partition with 10mm thk.The Partition should contains 4'0" ht blocked partion from the floor and above 2'6"ht contains glass partion width of 5'0" remaining 0'6" contains plyboard partion.. Supply and fixng of 12mm thick toughened Glass in Front Counters . In glass all the edges moulded in bull nosing and it should be fitted with hard wood beading at both the ends to with stand the glass and the wooden surfaces finished with natural wood finish.Also the glass having a opening as mentoned in the drawing or size of 0'6" x 0'9". The rates inclusive of all fittings and accessories,etc. complete. The entire work to be completed as per the instructions ans consultation of the Architect.The rate also includes supply,fabrication, fixing with all necessary accessories all with brass finish and other hardwares.	Sft	50.83		
5	Supply and fixng of 12mm thick toughened Semi arched Glass B/R Rs250/Sft in front counters. In glass all the edges moulded in bull nosing and it should be fitted with hard wood beading at both the ends to with stand the glass and the wooden surfaces finished with natural wood finish.the glass should have a opening as mentoned in the drawing or a size of 0'6" x 0'9". The rates inclusive of all fittings and accessories etc.	Sft	18.83		
6	Made out of 18mm commercial ply board outer façade finished with 01mm laminate as per drawing enclosed storage unit with 3 drawers, keyboard and pencil drawer on channels, cable manager, and laminated apron to match décor. Drawer unit and verticals made out of 18mm commercial ply board with Keyboard drawers. PC stands for PC below worktop and 18mm ply boardfootrest finished with enamel paint. All Drawers to be provided with Godrej lock & SS handle of approved make. The exposedside of front façade, drawer front shall be finished with 01mm laminate as per drawing enclosed. The inside shall be melamine polished to give a smooth finish.				
a	Working counter 2'0" wide	Rft	12.83		

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
COST ESTIMATE / BILL OF QUANTITIES (FAS & BURGLAR ALARM WORKS)					
NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
IX	FAS & BURGLAR ALARM WORKS				
1	Supplying, installation, testing & commissioning of heat detector operating at 54°C/57°C with rate of rise cum fixed temperature (dual thermistor) type with mounting base complete with all connection etc. as required.	1	Nos		
2	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as required	4	Nos		
3	Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.	1	Nos		
4	Supplying, installation, testing & commissioning of manual call boxes of MS construction in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as required	1	Nos		
5	Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.	1	Nos		
6	Supplying, installation, testing & commissioning sector panel suitable for following zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered, complete with all connections,interconnections as required.				
	8 Zone	1	Nos		
	CABLING WORKS				
9	Supply and wiring with 2C x 1.5 sq.mm FR twisted pair shielded,1.1KV grade PVC insulated unarmoured copper conductor cable, PVC overall sheathed cable in already laid conduit with interconnections complete as required and as directed by EIC.(For fire detector)	90	Mtr		
	Burgler Alarm works				
1	Providing and fixing of Burglar Alarm system covered in Door magnetic contact sensor, PIR sensor,Panic switch, sounder , Cable & conduits. (Make :-Securico/Texecom or equivalent)	1	Nos		
	TOTAL				

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
COST ESTIMATE / BILL OF QUANTITIES (BRANCH ELECTRICAL)					
NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
II	BRANCH ELECTRICAL WORKS				
A	LIGHT/FAN POINT WIRING				
	Supply and run of 3Rx1.5 sq.mm. FR pvc multistrand Copper wire in suitable FRLS PVC conduit, having 6A modular switch on modular PVC/GI box for the following points				
1	Primary point	7	Pts		
2	Secondary point	42	Pts		
3	wall fan point including 5A socket with control switch	8	Pts		
4	1No. 6A socket controlled by single switch in switch board	7	Pts		
5	1No. Buzzer with bellswitch incl. wiring connections	1	Pts		
6	Supply and laying 2x2.5 1 x 2.5 sq.mm. PVC insulated copper for lighting circuit main.	90	Mtr		
B	MAIN SUPPLY (PRIMARY DISTRIBUTION) MCB DB, PANEL BOARD				
1	Panel Board				
	Supply, Erection, Testing and Commissioning of Indoor type MAIN PANEL, Wall / Floor mounting type, dust and vermin proof by construction of 14 SWG CRCA sheets Compartmentalised, modular type IP 42 Protection with powder coated panel as specification below.				
	Incomer:				
	1 No - 63A 4P 25kA MCCB				
	1 Set of Current transformer rated 125/5A, 10VA/CI 1.0 for metering.				
	1No – Digital Multi data Meter				
	1 Set – LED type RYB indication lamps with control fuses				
	Outgoing feeders				
	1Nos -40A TPN MCCB				
	3Nos -32A TPN MCCB				
	100A Aluminium Bus Bar and Associated Accessories as required.				
	All breaker should be rotary handle mechanism				
	Incoming and outgoing cables shall be of Top entry only.	1	No.		
	CHANGE OVER SWITCH FOR UPS & LIGHTING LOAD				
2	Supply and installation of 32 A 4PMCB in sheet steel enclosure on wall mounting angle iron frame work and including top & bottom cable boxes to receive incoming & outgoing cables.	1	Nos.		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3	Supply, erection, testing and commissioning of single phase 12WAY, SPN MCBDB double door type, IP 42 powder coated for Lightng DB 32A DP MCB – 1No as INCOMER, 10A SP MCB – 6 Nos.,25ASP MCB - 1Nos as OUTGOING Including all interconnections & accessories etc.,	1	Nos.		
4	Supply and fixing 8way TPN DB double door having 32A4p ELCB WITH 100mA-1 No. as incomer with ,25 A SP - 7 No, 16A SP - 8 Nos, 10A,SP -5 Nos MCBs with suitable rated cu. Bar connection including interconnection.& junction box as necessary Required job etc.(For A/C & Power Load)	1	Nos.		
5	MAIN DB FOR UPS & LIGHTING LOAD				
	Supply and fixing4way TPN DB double door having 32A4p ELCB WITH 30mA-1 No. as incomer with 6A - 12Nos , SP MCBs with suitable rated cu. Bar connection including interconnection.& junction box as necessary Required job etc.(For Lighting & Small power)	1	No.		
C	POWER CABLE & CONDUIT WIRING				
	Supplying, laying, testing & commissioning of PVC / LT insulated 1.1KV grade armoured conductor cables of the following sizes, clamping on to the wall as per site condition.				
1	4c x 35 Sq .mm Al. XLPE,Ar Cable	10	Mtrs		
3	4R X 6 Sqmm. & 2R X 2.5 Copper Cable in a suitable PVC FRLS conduits	20	Mtrs		
4	3R X 6Sqmm. Copper Cable in a suitable PVC FRLS conduits (FOR LIGHTING)	15	Mtrs		
	END-TERMINATION				
	Terminating, Connecting and Commissioning of the above under Ground cables with compression type SIBG Cable glands.The cost of earthing gland with copper strips/wires shall also be included. The cables shall be terminated with aluminium lugs after crimpin				
1	4c x35 Sq .mm Al. XLPE,Ar Cable	2	Nos		
3	4R X 6 Sqmm. & 2R X 2.5 Copper Cable in a suitable PVC FRLS conduits	6	Nos		
4	3R X 6 Sqmm. Copper Cable in a suitable PVC FRLS conduits	2	Nos		
D	RAW POWER SOCKETS, AC SOCKETS WITH WIRING				
1	Supply and run of 2 runs of 4.0 sq.mm. For phase, netural and 1 run of 2.5 sq.mm for earth PVC multistrand FRLS wire from Main D.B. to split air – conditioners/ 16Amps Sockets in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	30	Mtrs		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2	Supply and run of 2 runs of 6.0 sq.mm. For phase,netural and 1 run of 2.5 sq.mm for earth PVC multristrand FRLS wire from Main D.B. to split air – conditioners in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	50	Mtrs		
3	Supply and run of 3 runs of 2.5 sq.mm.phase,Netural, earth PVC multristrand FRLS wire from Main D.B. to 6Amps Sockets for Works station Points in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	120	Mtrs		
4	Supply and fixing of 25 A switched socket with indicators in modular box For Split A/c control.	6	Nos		
5	Supply and fixing of 16A switched socket with indicators in modular box For utility	8	Nos		
6	Supply and fixing of 6A switched socket with indicators in modular box For work stations.	16	Nos		
E	UPS WIRING & ACESSORIES				
1	Supply and fixing of 32 A 4P. MCB as input control in separate steel sheet enclosures and necessary connections.	1	Nos		
4	Supply and fixing4way TPN DB double door having 32A4p ELCB WITH 30mA-1 No. as incomer with 6A - 12Nos , SP MCBs with suitable rated cu. Bar connection including interconnection.& junction box as necessary Required job etc.(For Lighting Load)	1	Nos		
5	Supply and run of 3 runs of 2.5 sq.mm.phase,Netural, earth PVC multristrand FRLS wire circuits from UPS. D.B. to required places (work stations) in P.V.C. conduit pipes including chasing in walls / floor wherever necessary	90	Mtrs		
6	Supply,fixing, testing & commissioning of 3No. 6A. 2/3 multi pin socket outlet in UPS circuit controlled with 1No. 6A one way switch in a steel sheet enclosure with 8 module top plate including dummies and incidental materials etc., for work stations.	2	Nos		
F	LIGHT FITTING SUPPLY & ERECTIONS				
	Notes: As per Site Conditions with necessary job etc.				
2	Supply and fixing of 18W LED, square type down lighters. CRCA fabricated enclosure with polycarnote diffuser and illumination area minium 380 mm suitable for Surface /recessed mounting POP/T Grid, Phillips / Wipro / CromptonGreaves/Elenserve make in false ceiling 15W white square LED Down Lighter with necessaryaccessories required for the job.	31	Nos		
3	4 feet 1 X 18 W LED tube light cool white 6000 K with integeated driver working range from 90 - 260 V AC , PF>0.9 Fitting with necessaryaccessories requiredfor the job.(Locker,cash, record rm)	6	Nos		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
3	Supply and fixing of 2' x 2' 36 - W LED Fitting. CRCA fabricated enclosure with polycarbonate diffuser and illumination area minimum 380 mm suitable for Surface /recessed mounting POP/T Grid. Phillips / Wipro / CromptonGreaves/Elenserve make in false ceiling with necessary accessories required for the job.	12	Nos		
4	Supplying, fixing and Commissioning of wall mounting fan. Make: Crompton greaves – SDX 120 model	8	Nos		
G	EARTHING				
1	Providing and fixing of chemical earth electrode made out of 50mm dia class-B Asahalock or equivalent 2m length with copper plate made out of 600x600x3.15 mm tinned copper plate along with one number 40x5mm tinned copper strip grazed with the plate buried vertically with top edge of the plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcoal, salt, foreign soil, water pouring arrangements brick masonry enclosure on top with R.C.C cover complete with labour and material as per direction of Engineer-in-charge (UPS-2, PANEL-1)	2	Nos		
2	Supplying, laying and connecting 1Rx6 sq.mm. FRLS pvc multistrand Copper wire in suitable FRLS PVC conduit, open fashion with necessary clamps, screws, etc. as earth link.	20	Mtrs		
3	Supplying, laying and connecting 300mm. long 25 x 3 mm. Copper flat with SMC/ DMC Insulators in open fashion with necessary clamps, screws, etc. as earth link.	2	Nos		
4	Supplying, laying, connecting 10SWG bare enamelled copper wire already laid PVC Conduits with necessary clamps, screws etc.	20	Mtrs		
5	Supplying, laying, connecting 8SWG bare enamelled copper wire already laid PVC Conduits with necessary clamps, screws etc.	20	Mtrs		
H	TELEVISION & TELEPHONE & LAN WIRING, MISC				
	TELEVISION WIRING				
1	Supply and fixing of RG 6 , television socket, 3 x 6A socket & 16 Amps switch outlet in modular box.	1	Nos		
2	Supply and run of RG 6 type CO - axial cable	15	Mtrs		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	TELEPHONE WIRING				
3	Supply and fixing of RJ 11, telephone socket, outlet in modular box.	5	Nos		
4	Supply and run of 2 pair telephone cable in suitable PVC conduit from telephone outlet	75	Mtrs		
	LAN WIRING				
5	Supply and run e-cat 6, 6pair 0.5 sqmm data cable for computers in separate PVC conduit pipes including chasing in walls / floors from hub to necessary stations.	90	Mtrs		
6	Supplying, fixing testing commissioning of RJ-45 data sockets in separate enclosure including all incidental materials etc., complete.	10	Nos		
7	Supply, fixing, testing & commissioning of 9U Hub Rack with Power Cord and accessories	1	Nos		
8	Supply, fixing, testing & commissioning of jack panel 24 Port..	1	Nos		
9	Supply, fixing, testing & commissioning of 24 port switch 10/100 Mbps including connections.	1	Nos		
10	Supply and installation of 1 m long patch chord.(CAT 6)	10	Nos		
11	Supply and installation of 2 m long patch chord. (CAT 6)	10	Nos		
	MISCELLIANEOUS				
13	Temporary for Lightpoints,Workstation wiring & Data Cable Laying With All Necessary Required job etc.	1	L/S		
14	Buyback old and unwanted materials. (to be deduct)*				
	TOTAL				

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)

COST ESTIMATE / BILL OF QUANTITIES (ATM ELECTRICAL WORKS)

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
VI	ATM ELECTRICAL WORKS				
A	LIGHT/FAN POINT WIRING				
1	Supply and run of 3Rx1.5 sq.mm. FR pvc multistrand Copper wire in suitable FRLS PVC conduit, having 6A modular switch on modular PVC/GI box for the following points				
2	Primary point	1	Pts		
3	Secondary point	3	Pts		
5	1 No. 6A socket controlled by single switch in switch board	1	Pts		
6	Supply and laying 2x2.5 1 x 2.5 sq.mm. PVC insulated copper for lighting circuit main.	10	Mtr		
7	Wiring for Name Board lighting circuit using 3R 4.0 sqmm PVC insulated multi stranded single core copper conductor FRLS wire in 20mm PVC conduit to be on wall complete with all accessories.	9	Mtr		
B	MAIN SUPPLY (PRIMARY DISTRIBUTION) MCB DB				
1	Supply, Installation, Testing and Commissioning of 4WAY VERTICAL TYPE TPN MCBDB Double door type, IP 42 powder coated comprising of "C" curve MCB's for ATM DB Incomer - 40 A 4P MCB - 01 No,Outgoing - (A)10 A SP MCB - 3 Nos.,20 A SP MCB - 3 Nos.,40 A DP MCB - 2 Nos.	1	Nos.		
C	CABLES				
	Supplying, laying, testing & commissioning of PVC / LT insulated 1.1KV grade armoured conductor cables of the following sizes, clamping on to the wall as per site condition.				
1	4R X 6 Sqmm. & 2R X 2.5 Copper Cable in a suitable PVC FRLS conduits	10	Mtrs.		
	TERMINATIONS				
	Terminating, Connecting and Commissioning of the above under Ground cables with compression type SIBG Cable glands.The cost of earthing gland with copper strips/wires shall also be included. The cables shall be terminated with aluminium lugs after crimpin				
2	4R X 6 Sqmm. & 2R X 2.5 Copper Cable in a suitable PVC FRLS conduits	2	Nos.		
D	RAW POWER SOCKETS, AC SOCKETS WITH WIRING				
1	Supply and run of 2 runs of 4.0 sq.mm. For phase,netural and 1 run of 2.5 sq.mm for earth PVC multristrand FRLS wire from Main D.B. to split air – conditioners/ 16Amps Sockets in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	15	Mtrs.		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2	Supply and run of 2 runs of 4.0 sq.mm. For phase,netural and 1 run of 2.5 sq.mm for earth PVC multristrand FRLS wire from Main D.B. to split air – conditioners in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	15	Mtrs.		
3	Supply and run of 3 runs of 2.5 sq.mm.phase,Netural, earth PVC multristrand FRLS wire from Main D.B. to 6Amps Sockets for Works station Points in P.V.C. conduit pipes including chasing in walls / floor wherever necessary.	20	Mtrs.		
4	Supply and fixing of 25 A switched socket with indicators in modular box For Split A/c control.	2	Nos.		
5	Supply and fixing of 16A switched socket with indicators in modular box For utility	2	Nos.		
6	Supply and fixing of 6A switched socket with indicators in modular box For work stations.	2	Nos.		
E	UPS WIRING & ACESSORIES				
1	Supply and fixing of 40 A 4P. MCB as input control in separate steel sheet enclosures and necessary connections.	2	Nos.		
3	Supply and fixing of 25 Amp Automatic change over switch for connecting branch UPS and ATM UPS metal sheet enclosure with necessary Interconnections, cable box,brackets, screws,bolts,nuts,etc.	1	Nos.		
5	Supply & Laying of 2 runs of 6.0 Sqmm and single run of 2.5 sqmm, PVC insulated, single core, multistranded copper conductor cable in suitable rigid PVC conduit from UPS output to UPS DB contol switch and to UPS DB.	15	Mtrs.		
6	Supply, erection, testing and commissioning of single phase 6 WAY, SPN MCBDB double door type, IP 42 powder coated for UPS and Emergency Lighting with (d-curve) 32A DP MCB – 1No as INCOMER 10A SP MCB – 4 Nos. as OUTGOING, Including all interconnections & accessories etc.,	1	Nos.		
7	Supply and run of 3 runs of 2.5 sq.mm.phase,Netural, earth PVC multristrand FRLS wire circuits from UPS. D.B. to required places (work stations) in P.V.C. conduit pipes including chasing in walls / floor wherever necessary	15	Mtrs.		
8	Supply,fixing, testing & commissioning of 3No. 6A. 2/3 multi pin socket outlet in UPS circuit controlled with 1No. 6A one way switch in a steel sheet enclosure with 8 module top plate including dummies and incidental materials etc., for work stations.	2	Nos.		

NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
F	LIGHT FITTING SUPPLY & ERECTIONS				
1	Supply and fixing of 18W LED, square type down lighters. CRCA fabricated enclosure with polycarbonate diffuser and illumination area minimum 380 mm suitable for Surface /recessed mounting POP/T Grid, Phillips / Wipro / CromptonGreaves/Elenserve make in false ceiling 15W white square LED Down Lighter with necessary accessories required for the job.	4	Nos.		
G	EARTHING				
1	Providing and fixing of chemical earth electrode made out of 50mm dia class-B Asahalock or equivalent 2m length with copper plate made out of 600x600x3.15 mm tinned copper plate along with one number 40x5mm tinned copper strip grazed with the plate buried vertically with top edge of the plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcoal, salt foreign soil, water pouring arrangements brick masonry enclosure on top with R.C.C cover complete with labour and material as per direction of Engineer-in-charge	2	Nos.		
2	Supplying, laying and connecting 1R x 6 sq.mm. FRLS PVC multistrand Copper wire in suitable FRLS PVC conduit, open fashion with necessary clamps, screws, etc. as earth link.	5	Mtrs.		
3	Supplying, laying and connecting 300mm long 25 x 3 mm Copper flat with SMC/ DMC Insulators in open fashion with necessary clamps, screws, etc. as earth link.	2	Nos.		
4	Supplying, laying, connecting 10SWG bare enamelled copper wire already laid PVC Conduits with necessary clamps, screws etc.	5	Mtrs.		
5	Supplying, laying, connecting 8SWG bare enamelled copper wire already laid PVC Conduits with necessary clamps, screws etc.	5	Mtrs.		
H	LAN WIRING				
1	Supply and run e-cat 6, 6pair 0.5 sqmm data cable for computers in separate PVC conduit pipes including chasing in walls / floors from hub to necessary stations.	10	Mtrs.		
2	Supplying, fixing testing commissioning of RJ-45 data sockets in separate enclosure including all incidental materials etc., complete.	2	Nos.		
3	Supply and installation of 1 m long patch cord. (CAT 6)	2	Nos.		
4	Supply and installation of 2 m long patch cord. (CAT 6)	2	Nos.		
	TOTAL				

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
COST ESTIMATE / BILL OF QUANTITIES (BRANCH AIR-CONDITIONING WORKS)					
NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
III	BRANCH AIR-CONDITIONING WORKS				
1	Supply and installation of 1.0 TR Capacity high Wall Split Air Conditioner 5 Star Rated (voltas/carrier / blue star/Samsung) including 4KVA Voltage stablizer installation of out door units complete including all civil Works	3	Nos		
2	Supply and installation of 2.5 TR Capacity Cassette Unit 5 Star Rated (voltas/carrier / blue star/Samsung) including 4KVA Voltage stablizer installation of out door units complete including all civil Works	2	Nos		
3	Supply and installation of Ms (Mild Steel) cages made of 1/2" x 1/2" Ms square bars for out door unit size 3 ' - 6 " x 2 ' - 6" including civil works and open arrangement in top and painting with 2 coats of synthetic enamel paint over a primer coat	5	Nos		
4	Supply & Laying of PVC Drain Piping for Split AC Units	20	Mtrs		
5	Supply and installation of 3 /4 " dia additional copper piping	10	Mtrs		
6	Supply and Installation of 3C x 4.0 sqmm communication cable.	25	Mtrs		
7	Supply and Installation of Drain Pump for Hi-Wall Split Units	3	Nos		
8	Additional gas charging site	1	Lot		
	TOTAL				

CHENGALPATTU BRANCH & ATM - INTERIOR, FURNISHING, ELECTRICAL, DATA CABLING AND AIR CONDITIONING WORKS FOR PUNJAB & SIND BANK (CHENNAI ZONE)					
COST ESTIMATE / BILL OF QUANTITIES (CCTV WORKS)					
NO	WORK DESCRIPTION	QTY	UNIT	RATE	AMOUNT
VIII	CCTV WORKS				
1	Supply and run e-cat 6, 6pair 0.5 sqmm data cable for computers in separate PVC conduit pipes including chasing in ceiling / walls / floors from hub to necessary stations.	190	Mtrs		
2	Supply of Hikvision turbo HD IR Outdoor Bullet Camera 20Mtrs range	2	Nos		
3	Supply of Hikvision turbo HD IR Indoor Dome Camera 20Mtrs range with 180 days back up with necessary requirments	10	Nos		
4	Supply of Hikvision HD 8 Channel DVR	1	Nos		
5	Supply of Hikvision HD 4 Channel DVR	1	Nos		
6	Supply of 6TB HDD	1	Nos		
7	Supply of 20Ams 12V DC Power Supply for Cameras	1	Nos		
8	Supply of BNC Connectors & DC Pin Connectors for Cameras & DVR	1	Nos		
9	Supply of 9U Wallmount Rack with Accessories	1	Nos		
	Installation Charges				
10	Laying of CCTV Cat - 6 Cable Through out PVC Conduits	240	Mtrs		
11	Camera Fixing & Termination	10	Nos		
12	DVR Installation and remote view	1	Nos		
13	9U Wallmount Rack Fixing, Patching and Dressing	1	Nos		
	TOTAL				