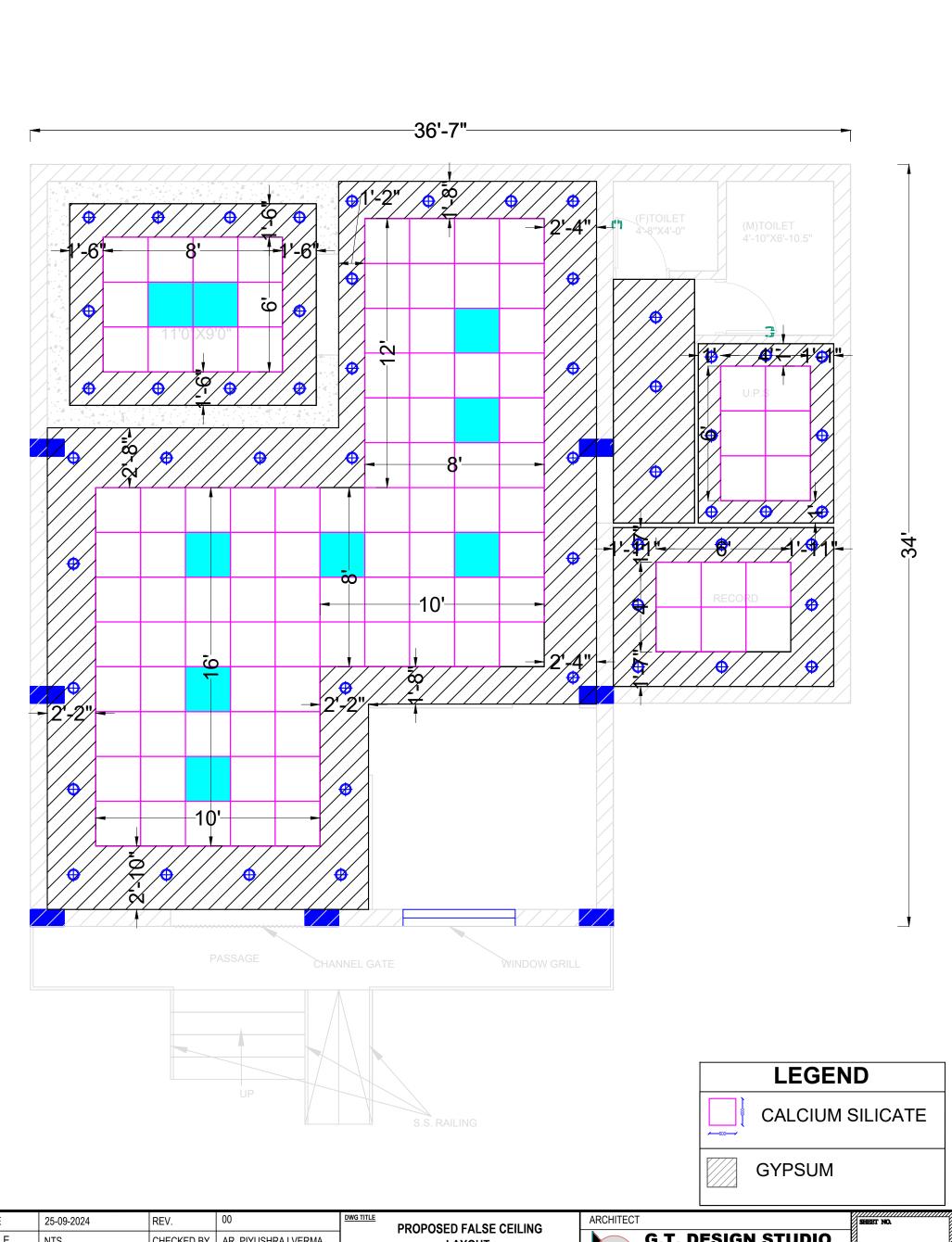
BOQ. AUNDHAI, BRANCH, RAJNANDGAON.										
ELECTRICAL WORKS										
<u>S.NO</u>	ITEM AND SPECIFICATION	QTY	UNIT	RATE	AMOUNT					
	POINT WIRING									
	The rates for the point wiring shall include providing and fixing of following:									
<u>a.</u>	Wiring of the point of any length from distribution board to point outlet excluding circuit wiring									
<u>b.</u>	Earthing of all switch box and all outlet boxes fitting, fans, 3rd pin of plug v									
<u>c.</u>	Modular Switch/ Sockets of Standard make with necessary modular series c									
<u>d.</u>	All SP MCB's, MCCB & TPN should be of "C Series"									
<u>e.</u>	Embedding all conduits in walls laying in slabs, above false ceiling or in flo	ors includ	ling all a	ccessories as	required, cutting					
	and refilling the chases with cement mortar.		0		1 , 0					
<u>f.</u>	Providing, fixing Modular switches, sockets, M.S. boxes (1.6mm thick) dra	w boxes, (G.I. Pull	wires (where	e required), brass					
	screws, ceiling rose/connector etc.									
<u>g.</u>	Adopting separate and independent system of wiring for lighting, power (no	ormal and	essential	supply). Wir	ing for following					
	points using PVC insulted copper conductor wires of 650V/1100V gra	ade in 16	SWG 1	M.S. conduit	stove enameled					
	concealed/ exposed including switches & sockets as above.									
	INTERNAL WIRING									
<u>1</u>	POINT WIRING:									
	S/I/T/C for light point / Exhaust fan point / Call bell point etc with 1.5									
	sq mm PVC insulated copper conductor single core multi stranded wire in									
	16 swg stove enameled rigid steel conduit with conduit accessories like									
	bend , junction box etc in concealed/surface manner as per site									
	requirement with suitable Modular Switches with plate and metal / PVC									
	box, ceiling rose , bulb holder etc including 1.5 sqmm PVC insulated									
	copper earth wire etc complete as required. Wire colors : Red, Black,									
	Light point controlled by one switch.	22	Nos.							
	Fan point controlled by one switch with stepped electronic regulator	2	Nos							
	as required.									
<u>2</u>	CIRCUIT WIRING FOR LIGHT BOARDS:									
	S/I/T/C for Lighting circuit with 2 x 2.5 + 1 x 1.5 sq mm PVC insulated		Nos.							
	copper conductor single core multi stranded wire in 16 swg stove									
	enameled rigid steel conduit with conduit accessories like bend, junction									
	box etc on surface / recessed manner etc (Wiring from D.B. / Source to									
	Board/destination) and making good all the damages, painting, cleaning									
	the site etc complete as required as per site requirement and as directed									
<u> </u>	(average length of circuit taken as. (12-15) M									
<u>3</u>	6 AMP. POINTS ON SAME BOARD:									
	S/I/T/C of 1 No 6 A Multi Socket with 1No. 6 A switch (Modular type)	7	Nos.							
	with cover plate, sheet steel box / PVC modular box etc on surface /									
	concealed manner I/c electrical connections and making good all the									
	damages, painting, cleaning the site etc complete as required as per site									
<u>4</u>	16 AMP. POWER POINTS:									

	C/I/T/C CAN ACA : 1.0 AN : 1.0/ACA N. 1.1.0.1	-	N.T.	
	S/I/T/C of 1 No 16 A switch & 1 No. six pin 6/16 Amp. Multi Socket	5	Nos.	
	Modular Type) with cover plate , sheet steel box etc on surface /			
	concealed manner I/c electrical wiring with 2 X 2.5 sqmm + 1 X 1.5			
	sqmm PVC insulated copper conductor single core multi stranded wire in			
	16 swg stove enameled rigid steel conduit with conduit accessories like			
	bend, junction box etc on surface / recessed manner etc (Wiring from			
	D.B. / Source to Board/destination) and making good all the damages,			
	painting, cleaning the site etc complete as required as per site requirement			
<u>5</u>	AC POINTS:			
	S/I/T/C of the surface / recess mounting distribution board with 20 A	3	Nos.	
	plug and socket, with 20 A SP MCB Incl. wiring with 2 X 4.0 sq mm + 1 X			
	2.5 sqmm PVC insulated copper conductor single core multi stranded wire			
	in 16 swg stove enameled rigid steel conduit with conduit accessories like			
	bend, junction box etc on surface / recessed manner etc (Wiring from			
	D.B. / Source to Board/destination) and making good all the damages,			
<u> </u>	painting, cleaning the site etc complete as required as per site requirement			
	and as directed			
	PANELS AND D.B.'s			
	incl. all connection ,earthing, making good all the damages, painting,			
	cleaning the site, etc complete as per site requirement and as directed.			
1	MAIN PANEL :			
	S/I/T/C of totally enclosed compartmentalized dust and vermin proof			
	cubical segregated and modular in construction M.V. panel board wall			
	mounted fabricated with14swg and 16swg ofCRCA M.S.sheet duly painted			
	with two coat of metal red oxide and two coat of fire resistance paint at			
	inside and out side of the panel, bus-bar chamber ,outgoing switchgear etc			
	(all feeder unit Would be compart mentalized), color coded PVC sleeved			
	vertical / horizontal busbar of required size of length, (bus-bar distances			
	shall be minimum 32 mm) insulators, hardware, neoprene gasket , hinged			
	door, interconnecting single core multi strand lugged copper wire having			
	current density of 2A / sqmm of suitable capacity & size with lugs from			
	busbar to switchgears / mccb / mcb or where ever required, two earthing			
	terminal busbar of size 25 x 5 mm with nut & bolts at out side of the panel			
	, rating and name plates for all incoming & outgoings, two eye two nos eye			
	bolts, wire mesh jali for ventilation etc comprising with the followings			
	NOTE:-			
	Sheet 16 swg: panel sides,upper,lower,and Ft.doors			
	Sheet 16 swg: back side and compartments.			
	Glande plates : 3 mm thick.			
	Cable entry: Provision at bottom and upper sides.			
	Inside the panel: white colour paint.			
	Outside the panel: Grey colour paint or as directed.			
	INCOMER			
	1 Nos 110 Amp MCB, 25 KA- 4 Pole			
	1 Nos – 100 A TPN insulated Copper Bus Bar			
	1 Nos-100 Amp Onload Manual change over switch			
	Set of Indicator Lamps			
	Set of Voltmeter + Ammeter+ Selector Switch			
	OUTGOINGS			
	4 Nos- 63, Amp TPMCB			
	SET AS ABOVE	1	Nos	
	021 10 120 12	1	1 103	

<u>2</u>	MASTER MCCB -125 Amp	1	Nos	
	125A MCCB with double door enclosure for turn off all the electrical			
	supply excluding UPS supply while Branch shut down.			
	or the first of th			
3	LIGHT DISTRIBUTION BOARD (Branch & ATM)		+ +	
	S/I/T/C of the surface / recess mounting following way MCB three		+ +	
	phase distribution board for single phase outgoing with IP 42 protection,			
	direct on wall incl. the followings accessories			
	INCOMER			
	1 No. TPMCB 40 Amp			
	OUTGOINGS			
	05-06 Nos SPMCB 6-10 Amp			
	SET AS ABOVE	2	Nos	
4	AC DISTRIBUTION BOARD		1103	
	S/I/T/C of the surface / recess mounting following way MCB three		+	
	phase distribution board for single phase outgoing with IP 42 protection,			
	direct on wall incl. the followings accessories			
	INCOMER			
	1 No. TPMCB 40 Amp			
	OUTGOINGS			
	3 Nos SPMCB 25 Amp			
	SET AS ABOVE	2	Nos	
			1105	
	UPS WIRING			
<u>1</u>	U.P.S. DISTRIBUTION BOARD (INCOMER)			
	S/I/T/C of the surface / recess mounting following way Double door			
	MCB D.B Single phase distribution board (Consumer unit) for single			
	phase out going with IP 42 protection incl. the followings accessories –			
	incl. Electrical connection ,earthing, making good all the damages, painting,			
	cleaning the site, etc complete as per site requirement and as directed.			
	INCOMER			
	1 NOS 40 A TPNMCB			
	OUTGOINGS			
	2 Nos- 40 Amp SPN) 7	
	SET AS ABOVE	2	Nos	
	UPS DIST. BOARD OUTGOINGS.			
	1 NOS 12 WAY SPN DIST BOARD			
	1 Nos- 40 Amp SPN			
	05-06 NOS 6 AMP SPMCB			
	SET AS ABOVE	2	Nos	
<u>3</u>	SPECIAL POINTS: (UPS) any length			
	S/I/T/C of following Modular type switch socket with cover plate , sheet			
	steel box etc on surface / concealed manner I/c electrical wiring with 2 X			
	2.5 sq mm + 1 X 1.5 sq mm PVC insulated copper conductor single core			
	multi stranded wire in rigid 16 swg stove enameled rigid steel conduit with			
	conduit accessories like bend, junction box etc on surface / recessed			
	manner etc (Wiring from D.B. / Source to Board/destination) and		1 +	
	making good all the damages, painting, cleaning the site etc complete as		+ +	
	required as per site requirement and as directed 3 Nos. 6 A Switch + 3 Nos. 6 A, 5 pin Socket.	5	Nos.	
3	EARTHING		1103.	
Ĕ	CHEMICAL EARTHING	2	Each	
	OHD MOM DIMITING		Lacii	

	Preparation of the Earth station: (as per I.S. 3043)		T T	
	S/I/T/C COPPER EARTHING ELECTRODE of size 3mts length			
	Ü			
	S/F of conductive back fill compound 25 kg for 2 mtr. / 50 kg for 3 mtr.			
	S/F in copper electrode model no n 80 (length 2000/3000,			
	inner pipe 42.4mm x 2.6mm,outer pipe 76.3mm x 3.2mm			
	Supply and laying of 6.0 sqmm PVC insulated copper wire from earth	6	Mtrs.	
	station to main panel board in 16 G MS conduit including all materials,			
	<u>CABLING</u> :			
1	L.T.CABLES:			
	S/I/T/C of the following 1100 volt grade pvc insulated Al / Cu.			
	Conductor armored cable inner and outer sheathed , along with the two			
	run of G.I.earth wire i/c termination with brass gland and Al. lugs etc.			
	On surface:			
	Cable on wall/column/beam/ceiling/above false ceiling/existing trench			
	etc incl. s/f of of saddles/spacers (wherever required as per site			
	conditions) and two run of G.I. earth wire along with the cable. Making			
	4 C x 10.0 sqmm armored copper cable with 10 SWG 2 Nos G.I. wire for	25	Mtrs.	
	TELEPHONE WIRING / CABLING SYSTEM.			
	TELEPHONE POINT:			
1	S/I/T/C of the telephone point with the followings -			
	Double outlet with shutter modular type Telephone Outlets (RJ – 11)	1	Nos.	
	with suitable size M.S./ PVC modular boxes complete as required.		1 1	
	Single outlet with shutter modular type Telephone Outlets (RJ – 11) with	4	Nos.	
	suitable size M.S./ PVC modular boxes complete as required.			
	TOTAL FOR ELECTRICAL WORKS			
	COMPUTER CABLING SYSTEM			
	COMPUTER POINT : I / O's :			
1	S/I/T/C of the Computer point with the following	5	Nos.	
_	Four pair STP CAT 6 LAN Cable tinned copper conductor, PVC insulaed		1100.	
	and sheathed, fire retarding, anti termite, color coded twisted pais and rip			
	cord			
	HMS PVC Pipe on beam/column/wall/floor etc with all necessary			
	materials i/c connections, identification by numbering etc complete as			
	required as per AT & T specification			
	Single outlet with shutter modular type I/O's outlets (RJ-45) with suitable		+ +	
	size MS/PVC modular boxes as required make D-LINK			
2	S/I/T/C of patch cords STP-CAT 6 complete with connectors and boots	6	Nos.	
_	on both side - 2mtr length D-LINK	J	1,03.	
	S/I/T/C of four pair STP-CAT 6 LAN Cable i/c cost of 25mm dia	100	Mtrs	
<u>3</u>	1.5mm thick PVC conduit/Floor trunking make D-LINKcomplete with			
<u>3</u>	11.5mm thick PVC conduit/ Floor trunking make D-LINKcomplete with			
<u>3</u>	connectors and boots on both side - 2mtr length D-LINK			
<u>3</u>	Ŭ 1	1	Nos.	
	connectors and boots on both side - 2mtr length D-LINK	1	Nos.	
	connectors and boots on both side - 2mtr length D-LINK Testing of STP cabling with scanner for all the nodes	1	Nos.	
	connectors and boots on both side - 2mtr length D-LINK Testing of STP cabling with scanner for all the nodes	1	Nos.	
	connectors and boots on both side - 2mtr length D-LINK Testing of STP cabling with scanner for all the nodes TOTAL FOR COMPUTER NETWORKING	1	Nos.	
	connectors and boots on both side - 2mtr length D-LINK Testing of STP cabling with scanner for all the nodes TOTAL FOR COMPUTER NETWORKING ELECTRICAL FITTINGS	1	Nos.	

	electrochemical brightened, polished and anodized aluminium mirror			
	reflector, Prewired with vacuum pressure impregnated copper ballast,			
	push fit pin holders and mains connector, PL lamp, starter, P.F.			
1	2 X 2 LED			
	36 W recess mounted LED flat panel HAVELS ,SYSKA,PHILIPS or C.G.	8	Nos.	
<u>2</u>	15 W Down lighter			
	15 W recess mounted LED flat panel HAVELS ,SYSKA,PHILIPS or C.G.	12	Nos.	
<u>3</u>	1 X 28 (T-5)			
	1X28 W T-5 Batten fitting i/c electronic choke HAVELS	4	Nos.	
	,SYSKA,PHILIPS or C.G.			
<u>4</u>	CEILING FAN DOUBLE BALL BEARING	2	Nos.	
	Ceiling fan (Brilliant white) 1400 mm sweep. CG/Havells/Bajaj			
<u>5</u>	EXHAUST FAN	2	Nos	
	Single phase Exhaust Fan continuously rated, capacitor start and run type,			
	totally enclosed and ruggedly built, per-lubricated double ball bearing,			
	copper wounded, A & E class insulation, dynamically balanced, below 40			
	db sound level etc. a) 300mm sweep, 900 r.p.m. exhaust fan.			
<u>6</u>	WALL BRACKET FAN	5	Nos.	
	Wall bracket fan white (400mm blade size) Havels/CG/Bajaj			
	TOTAL FOR ELECTRICAL FIXTURES			·



DATE	25-09-2024	REV.	00	₽
SCALE	NTS	CHECKED BY	AR. PIYUSHRAJ VERMA	
DESIGN BY	AR.ANSHUL SENGAR	DRAWN BY	ER. CHANDRAHAS	

THIS DRAWING AND THE DESIGNS ON WHICH IT IS BASED ARE THE COPYRIGHT AND PROPERTY OF MS. G.T.DESIGN STUDIO AND THEIR USE IS CONDITIONED UPON THE USERS AGREEMENT NOT TO REPRODUCE OR TO USE FOR ANY OTHER PURPOSE WHOLLY OR IN PART ANY DETAILS THEREIN WITHOUT THE SPECIFIC WRITTEN PERMISSION OF MS. G.T.DESIGN STUDIO, RaIPUR.

LAYOUT (EXCLUDING WALLS, COLUMN)

PROJECT TITLE	
INDIAN BANK BRANCH AUNDHAI (C.G)	
RAJNANDGANV (C.G.)	

G.T. DESIGN STUDIO ARCHITECTS + PLANNERS + INTERIOR DESIGNERS ENGINEER'S + PROJECT MANAGEMENT'S ** ?????

P-27,Kavita Nagar,Avanti Vihar,Raipur-492001,Chhattisgarh. Voice: - +91-9424114546,+91-9907402063 Off.-0771-4011330 Email: - gtdsarchitect@gmail.com.gt_designstudio@rediffmail.co