Renovation Works Including HVAC, Electricals, Interior Furnishing work at Regional Office, Pirmuhani, Kadamkuan, Patna – 800001

THE ORIENTAL INSURANCE COMPANY LTD. REGIONAL OFFICE, PIRMUHANI, KADAMKUAN, PATNA.

TENDER DOCUMENT

[PART – II]
[Financial Bid]
[SCHEDULE OF QUANTITIES AND DRAWINGS]
TENDER NO.: RO/Estate/2018-19/07

Architect

IDEATION DESIGN STUDIO PVT LTD

Address: 1 st Floor, Shambhu Nath Plaza, New Dakbunglow Road, Patna – 800001 Contact: +91-9525 906 770, 0612-2216779

Date: 18/01/2019

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THE ORIENTAL INSURANCE COMPANY. LTD.

PIRMUHANI, KADAMKUAN, PATNA-800003.

	SUMMARY						
	AIR CONDITIONING WORK AT REGIONAL OFFICE, PATNA						
SL. NO.	WORKS	AMOUNT	TOTAL				
1	Air Conditioning Work						
	Cost of the Works						
2	Interior Furnishing Works						
	Cost of the Works						
	TOTAL COST OF THE WORKS						

Note : The Rates quotated should be inclusive of all Taxes

	ITEMS OF AIR CONDITIONING & ELEC	TRICAL	. WORI	KS	
Sr. No	Description	Unit	QTY	RATE	AMOUNT
	Description	Oine	۷.,	TOTTE	7.1000101
Α					
1.0	WIRING				
1.7	Wiring for circuit/ submain wiring along with earth wire with the following sizes of				
	FR PVC insulated copper conductor, single core cable in surface/ recessed with PVC				
	conduit as required Make : Havells/Polycab/Finolex				
1.7.3	2X 4 sq. mm + 1 X 4 sq. mm earth wire (1 and 1.5 Ton AC)	Meter	200		
1.7.11	2X 6 sq. mm + 1 X 6 sq. mm earth wire (2 Ton AC)	Meter	345		
1.7.12	4X 10 sq. mm + 2 X 10 sq. mm earth wire (From Panel To DB)	Meter	50		
2.0	MCB &DB				
2.9	Supplying and fixing following Way horizantal type three pole and Neutral sheet				
	steel MCB Distribution board ,415 volts on surface/Reccess complete with tinned				
	copper bus bar, Earth bar, Neutral bus bar, din bar interconnection, powder paint inc "C" curve, MCB Suitable for inductive loads of following poles in the existuding				
	etc as required.(But without Mcb,Rccb,isolater) Make : Havells/L&T/Legrand				
	econ do regan con but without most neces isolater i make i maverist Leci / Legi and				
201	A.Way /A. 43) single dear Haris-ort-Lucro	_ ·	_		
2.9.1	4 Way (4+12)single door Horizantal way Supplying and fixing following rating 240/415 volts, "C" curve, MCB Suitable for	Each	4		
2.12	inductive loads of following poles in the existing MCB DB complete with				
	connections, testing and commissioning etc. as required. Make :				
	Havells/L&T/Legrand				
2.12.1	6/32 A Single Pole Make: Havells/L&T/Legrand	Each	22		
2.12.7	63 A TPN Make : Havells/L&T/Legrand	Each	4		
2.19	Suppling and fixing 25A, 240V SPN industrial type socket outlet ,with 2pole and		-		
	earth, metal enclosed plug tope alongwith 25A C curve MCB in sheet steel				
	enclosure, on surfaceor reccess, with chain metel cover for the socket outlet and		22		
	complete with connections , testing and commissioning etc. as required.				
2.20	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild				
	steel, at least 2 mm thick, and vitreous enameled white on both sides, and with	Each	1		
	inscription in single red colour on front side as required. Make:	Lacii	1		
	Havells/L&T/Indoasian.				
Α	TOTAL AMOUNT (A)				
В	SPLIT AC UNIT - (2.0 TR, 3STAR)				
1	Suplly, instalation, testing and commissioning of 2 Ton (24000 BTU/hr)				1
	Aircooled Mega Hiwall type airconditionr unit complete with blower				
	section with motor and drive,DX Copper coil,active carbon filter for				
	remove odour, and LCD remote control type (Condencing unit mounted				
	on wall brackets).or on surface as per site requirement) with extended				
	liquid/vaporub line (different length) pvc condencate drain pipe on proper				
	size run on surface through walls, colomuns, copper pie power cable etc.				
	inside proper size duct chanel (Adamjee-dura), complete with material				
	hardware, fittings, fixture masonary works such as cutting of grooves				
	holes etc. and making the cement good with cement plaster, finish paintig				
	complete all as per site condition including 5KVA stabilizer (Microtech				
	make or equivalent) and 3x2.5 copper wire make havells.				
	MAKE : CARRIER / DAIKIN / VOLTAS / LLOYD or Equiv.				
D4	CDLIT ACTIMIT / 1 O TD / 1 E TD 2CTAD\	Noc	1 /		
B1	SPLIT AC UNIT - (1.0 TR / 1.5 TR, 3STAR)	Nos.	14		

				I	
2	Suplly, instalation, testing and commissioning 1.5Ton				
	(18000/12000BTU/hr) 3star cooling capacity remote condence type				
	(Condencing unit mounted on wall brackets or on surface as per site				
	requirement) with extended liquid/vaporub line (different length) pvc				
	condencate drain pipe on proper size run on surface through walls,				
	- · · · · · · · · · · · · · · · · ·				
	colomuns, copper pie power cable etc. inside proper size duct chanel				
	(Adamjee-dura), complete with material hardware, fittings, fixture				
	masonary works such as cutting of grooves holes etc. and making the				
	cement good with cement plaster, finish paintig complete all as per site				
	condition including 4KVA stabilizer (Microtech Make or equivalent) and				
	3x2.5 copper wire make havells.				
	MAKE : CARRIER / DAIKIN / VOLTAS / LLOYD or Equiv.				
DO	SPLIT AC UNIT - (1.0 TR, 3STAR)	Noc	7		1
B2		Nos.	2		
В3	SPLIT AC UNIT - (1.5 TR, 3STAR)	Nos.	6		-
	TOTAL of COLUMN ACTION TO		D1 : D		
В	TOTAL of SPLIT AC UNITS		B1 + B	Z + B3 	
С					
	Supply Installation Testing and Commissioning hand commissioning				
1.1	Supply ,Installation, Testing and Commissioning hard copper refrigrant				
	pipes with supports, fitting etc. for Hi-Wall Split units.				
а	2 TR	RM	310		
1.2	Drain Piping				
1.2	Supply & Fixing of hard drawn PVC drain piping complete				
	with fittings, supports, 6mm thick closed cell elastomeric insulation				
	with fittings, supports, offin thick closed cell elastomeric insulation				
а	25 mm	RM	80		
1.3	Supply installation testing and commissioning of interconnecting				
	communication cable from indoor to outdoor enclosed with hard PVC	RM	310		
	conduite with necceary support	IVIVI	310		
1.4	Supply & fixing of Outdoor Stand With Vibration Isolater V.I. pad. ISI	Set	22		
	Marka.				
С	TOTAL of C				
D	EARTHING				
1.1	Suplly and instalation of Earthing for Electrical equipment of for chemical				
	earhing Having copper bonded electrode of 80 mm dia. and 3mts. Long				
	50 kg back fill compound makes proper digging and soil filling connecting	Nos	3		
	testing and commissioning. Connecting from earth to required point by 6	1103	,		
	sq. mm copper conductor				
D	TOTAL of D				
				1	T
E	MAIL PANEL And EXTERNAL POWER CABLING				
E1	MAIN PANEL				
	INCOMER:				
	1 Nos 260A TPN, 50kA, MCCB's with microprocessor based releases for				
	overcurrent, shortcircuit and earth fault, with isolable neutral, ON				
	indication, 1 no. multifunction digital meter (showing all power				
	parameters), with selector switch, matching cast resin CT's.				
<u> </u>	63A, Changover switch				-
					-
	Main BUS BAR				

	A set of TPN cooper bus bar rated for 300A (after considering all				
	necessary deratings) 3 phase 4wire, 50Hz.				
	INTERNAL WIRING OF PANEL 35 SQ. MM COPPER CABLE				
	DG BUS BAR				
	A set of TPN cooper bus bar rated for 100A (after considering all				
	necessary deratings) 3 phase 4wire, 50Hz.				
	OUTGOING				
	8 nos 40 A TPN MCB's, 25 kA with indication lamps				
	6 nos 40 A DP MCB's, 25 kA with indication lamps				
	Other items such as				
	1 Lot of control Copper wiring	Set	1		
E2	XLPE POWER CABLE (From Pole To Panel)				
	Supply,installation,testing and commisioning 3.5 core,120 sq.mm				
	Alluminium armoured XLPE power cable Thimbling in both sitde of cable	RM	25		
E	TOTAL of E		E1 +	- E2	
F	TOTAL OF AIR CONDITION WORKS	4	A + B + (C + D + E	

SI No.	Items	Unit	QTY	RATE	Total Cost
i NO.	items	Unit	QII	KAIE	Total Cost
G	Furnishing Work				
	Glazed Partitioning (Fixed) with Aluminum Framming				
G1	Providing and Fixing of 5.5 mm thick Glazing (clear Float Glass panel) and 6mm thick Laminated MDF Board in approved shade/specification, fixed in Powder coated Aluminum doors/windows/shutters / Partition frames in as approved shade with EPDM rubber / neoprene gasket etc. complete as/architectural drawings and the directions of the Architect in Charge. (Note: Please refer drawings DT-101A & 201A)	Sq-ft	80		
	Glass Doors in with Aluminum Framming				
G2	Providing and Fixing of 5.5 mm thick Glazing (clear Float Glass panel) fixed in Powder coated Aluminum DOOR frames in as approved shade with EPDM rubber / neoprene gasket etc. complete as/architectural drawings and the directions of the Architect in Charge. Cost includes all standard fittings, Handles on both sides, Lock-sets, Door closure, etc.(Floor Spring not required, Door frame to be fixed with Butt Hinges or Pivot hinges on side partition frame) (Note: Please refer drawings DT-101A & 201A)	Sq-ft	78		

	Wooden Paneling / Boxing for AC			
G3	Providing and fixing of Wooden paneling or Boxing On or over Beams from Column to Column (as equired) over RCC Column upto 2'-0" in height and width as/site condition at Ceiling level to support SPLIT AC Indoor unit, where ever no solid wall or Wooden partition is available (Location may be confirmed with The Architect in Charge). Paneling made of 19mm thick BWP Grade Board or Ply fixed over Ceiling / Beam & Column with 1" x 1.5" solid wood section at distance of not more than 2'-0" in any direction. Wooden Paneling including both side edges to be finished in 1MM thick Laminates as/ specification and shade as approved.	100		
Н	TOTAL AMOUNT (H)	G1 + G	2 + G3	

MAKE LIST

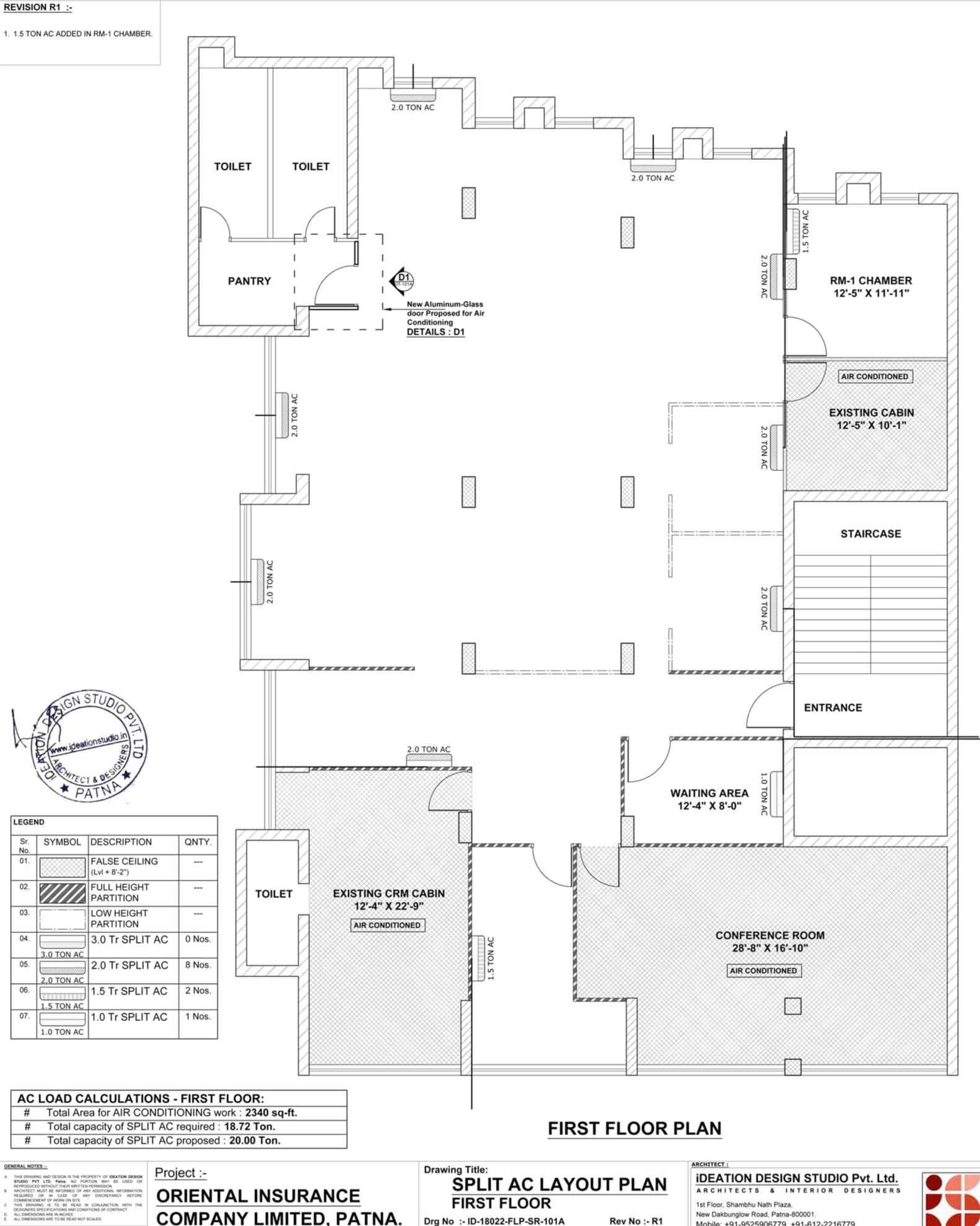
Oriental Insurance Company Limited, Patna / Empanelled Architect / Consultants reserves the right to select any particular make from the list given below to be used in the project work without any extra cost adjustment. Department's decision will be binding on the contractor.

It's a General MAKE LIST for all Kind of **Wooden-Aluminum works** / **HVAC** / **Electrical works**, Contractor will pick The Make name according to the Items as mentioned in BOQ required for the currant site only. The preference of makes shall be in the order as mentioned below. The contractor should quote for the make mentioned first followed by other alternates in their order.

0		
Sr. No.	Details of Equipment/ Material	Manufacturer's Name
1)	Carpentry / Aluminum Works	
1	Commercial plywood	GreenPly / Austin / Century / Alpro
2	Marine plywood	GreenPly / Austin / Century / Alpro
3	Partition framework	SAINT GOBAIN - Gypsteel Ultra - Floor & Ceiling Channel/ 'C' Stud/ Fixing Channel/ Ceiling Section/ Perimeter Channel/ Intermediate Channel/ Ceiling Angle or Equivalent
4	MDF	Duratuff / Nuewood or Equivalent
5	Soft board	LOCAL as available
6	Flush door	GreenPly / Austin / Alpro or Equivalent
7	Laminate	GreenLam / Heritage / Marino / Century
8	Veneer	GreenLam Decowood / Century / Wood Crest - GreenPly
9	Adhesive for wood	Fevicol SH / Fevicol Marine / Fevicol Hyper
10	French Polish	LOCAL
11	Melamine finish	Asian / Berger / Nerolac or equivalent
	Hardware	
12	Floor Spring for frameless doors	Ebco / Olive / Godrej / Ozone / QUBA
13	floor Spring for normal doors	Ebco / Olive / Godrej / Ozone / QUBA
14	Door Closure	Ebco / Olive / Godrej / Ozone / QUBA
15	Door Stopper	Local
16	Patch Fitting	Ebco / Olive / Godrej / Ozone / QUBA
17	Channels	Ebco / Olive / Godrej / Ozone / QUBA
18	Glass Connectors	Ebco / Olive / Godrej / Ozone / QUBA
19	Glass Handles	Ebco / Olive / Godrej / Ozone / QUBA
20	Lever Handles (for flush door)	Ebco / Olive / Godrej / Ozone / QUBA
21	Cabinate Handles	Ebco / Olive / Godrej / Ozone / QUBA
22	Knobs	Ebco / Olive / Godrej / Ozone / QUBA
23	Door Hinges-	Ebco / Olive / Godrej / Ozone / QUBA
24	Shutter Hinges	Ebco / Olive / Godrej / Ozone / QUBA
25	Latch	Ebco / Olive / Godrej / Ozone / QUBA
26	Tower bolt	Local
27	Cylindrical lock	Ebco / Olive / Godrej / Ozone / QUBA
28	Door Lock	Ebco / Olive / Godrej / Ozone / QUBA
29	Drawer Lock	Ebco / Olive / Godrej / Ozone / QUBA
30	Storage Lock	Ebco / Olive / Godrej / Ozone / QUBA
31	Magnetic Ball Catch	Ebco / Olive / Godrej / Ozone / QUBA
32	Drawer Guide	Ebco / Olive / Godrej / Ozone / QUBA
33	Ceiling mounted projector stand	Ebco or Equivalent
34	Screws	GKW / LAXMI or equivalent
	Luster paint	Asian / Dulux / Nerolac
36	Plastic Paint	Asian / Dulux / Nerolac
11)	HVAC ITEM:	
1	Chiller	Blue Star / York / Daikin / Dunham Bush / Carrier
		Kirloskar / Bell & Gossett / Wilo
2	Chilled/ Condenser Pumps:	(Mather+Platt) / Grundfos
3	Cooling Towers	Nihon Spindal / Baltimore / Evepco / Advance
4	Hot Water Generator	Rapid Cool / Emerald / Sandhu
5	Air Handling Units & TFA:	
i)	Air Handling Units	VTS / Edgetech / Zeco / System Air / Crystal Air
ii)	Cooling Coil	As per manufacture standered
iii)	Fan	Kruger / Nikotra /Comferi Equivalent with AMCA / Eurovent Certification
6	Fan Coil Unit & Cassette Unit	Sinko / Carryaire / Trane
7	Split AC	CARRIER / DAIKIN / VOLTAS / LLOYD or Equiv.
7A	Stabilizers for Split AC	MICROTEK / V-GUARD / SEN & PANDIT / LUMINOUS

	-	·
19 E	Expansion Bellows	Easyflex / Resistoflex / Areaflex / Dunlop
	Pot/Y-Strainers	Sandhu / Rapid Cool / Sant
	Suction Guide with Strainer	Anergy / Armstrong / Emerald / Sandhu
	BTU meter RH Sensor	Belimo / Siemens / Honeywell / Shenitech Belimo / Honeywell / Siemens / Omnicron
	Thermostat	Danfoss / Belimo / Honeywell / Siemens / Anergy / Omnicro
	Pressure Gauge (Industrial Type)	Feibig / H. Guru / Emerald
	Differential Pressure Switch	Siemens / Rapid Control / Anergy / Sant
	Thermometers	Feibig / H.Guru / Emerald
	Closed Expansion Tank	Anergy / Bell & Gossett / Sandhu / Emerald
	Air Separator	Anergy / Emerald / Sandhu
	Auto Air Vent	Anergy / Rapid Cool / Oventrop / Emerald
	Plug Valve G.I. Sheets	Anergy / Rapid Cool / Emerald Sail / Tata / Jindal
	MS. Sheets	Hindalco / Balco / NALCO
	Fire Dampers	Systemair / Carryaire / Ruskin / Greenheck
	Damper Actuator	Belimo / Semines / Sinider
36 (Grills/Diffusers	Systemair / Carryaire / Bright Flow / Tristar
37 F	Fresh Air Louvers	Systemair / Carryaire / Bright Flow / Tristar
38	Nitrile Rubber	K-Flex / Armacell / Aerocell
	otective Coating over insulation (Lag coating)	CISBOND / Pidilite / Foster / Idendan
	Glass Wool	K-Flex / UP TWIGA / Owens Corning / Kimmco Pidilite / Foster / CISBOND / Henkel
	sulation Adhesive Factory Made ducting	Ductofab / Zeco / Technofab / Ecoduct
	Filters (in Air-conditioning system)	Thermodyne / Mechmaark / Camfil / AAF
	entilation Fans:	·
i) 7	Tube/Vane Axial	Kruger/System Air/ Greenheck
	Inline (Centrifugal)	Kruger/System Air/ Carryaire / Ostberg
	Propeller Fans	Kruger/ GE / Alstom / Crompton
	Washers/Scrubber:	Education / Zono / Cristom Air / VTC / Christol Air
	Air Washer/Scrubber Fan	Edgetech / Zeco / System Air / VTS / Crystal Air Kruger / Nikotra / Comferi / Equivalent with AMCA Certification
	Pump	Kirloskar / Beacon
	Filters	As per manufacturer's standard
	Heat Recovery Wheel units	DRI / Ostberg / Flaktwood
47 E	Expanded Polystyrene (EPS)	Styrene / FGP / Pilkington / Indian
		Packaging
	Vibration Isolator	Easyflex / Resistoflex / Dunlop
	Anchor/Fastener	Hilti / Fisher / Raw plug
	Duct Support PUF Saddles	Gripple / GPL / Easyflex Zip-Clip Lloyds / Beardsell / Malanpur
	FCU link	ATS (CSI) / Oventrop / CIM
	Sound Attenuator	Ruskin / Systemair / Trox
	CO Sensor	Siemens / Omicron / Johnson
	VFD	Danfoss / ABB / Siemens / Fuji
	CO2 Sensor	Siemens / Omicron / Johnson
	Demand Ventilation System	
	Equipment	Conaire / Glenstorm / Tristar
	Motorized Assembly	Conaire / Glenstorm / Tristar
	Integrator	Conaire / Glenstorm / Tristar Finolex / Kissan / Prince / Supreme
00 1	High Density PVC Pipe	i illolex / Nosaii / Fillice / Supreme
	I ECTRICAL WORKS	
1) E	LECTRICAL WORKS	Manufacture A. M
1	Details of Equipment/ Material	Manufacturer's Name

2	M S Conduit	AKG / BEC / RMCON
3	Heavy Duty Accessories for MS Conduit	Rama Steel Tube / Sharma / Seema
4	PVC Conduit & Accessories	Polypack / BEC / AKG
5	Switch Socket Accessories	Legrand / MK / Schneider / Siemens / Crabtree
6	Copper conductor PVC insulated wires (FRLS)	Polycab / Havells / RR Kable / Parmount
7	Data Outlet	Molex / D Link / Avaya
8	MCB/ELCB/RCCB/DB	MDS / Hager / Schneider/ Siemens / ABB
9	Timers & Contactors to be mounted in DB's	L&T / Siemens /GE / Schneider
10	MV Contactors/Timer/ Starters	L&T/Siemens/GE/Schneider
11	Protective Relays	ABB/ Siemens/ L&T/ Schneider
12	kWh Meters (Electronic Digital type)/ Multifunction Meter/Ammeter/Voltmeter	Conzerv /Neptune/ L&T /Trinity
13	LT Cables	Universal/Polycab/ Havells/Gloster
14	Indication Lamps/Push Button	L&T/ BCH/GE
15	Light Fixtures	Refer lighting section
16	Ceiling/Exhaust Fans	Crompton Greaves/Orient/ Khaitan/ Usha
17	Cable Tray	Slotco/ Profab/MEM/OBO
18	UPS	APC/Emerson/Socomec/Numeric
19	Polycarbonate Junction Boxes	Hensel/ Clipsal/Mennekes
	External Electrical Works	
20	HT Panel Boards	Siemens/ ABB/ L&T/ Schneider
21	Power Transformers	Schneider/ ABB/Crompton Greaves
22	Transformers (Distribution)	Recon/Schneider/ABB/Crompton Greaves /Kirloskar
23	Relays	ABB/Siemens/ L&T/ Schneider
24	HT XLPE 33 KV/ 11 KV Cable	Polycab/ Havells/ Universal/ Gloster
25	HT Cable Termination/ Jointing Kit	Raychem/3M
26	L.T. Panel Boards/Sub-Panel/ Feeder Pillar	SPC Electrotech/ Tricolite/ Adlec
27	ACB	Schneider (MVS)/ L&T (U Power)/ ABB (E-Max)/ Siemens (3WL)
28	MCCB	Schneider (CVS)/ L&T (D-Sine)/ ABB (T-Max)/ Siemens (3VA)
29	Capacitor	L&T/Siemens/Vishey/Epcos/Ducati
30	Control Cable	Universal/Polycab/ Havells/Gloster
31	Selector Switch	Rishab – L&T/ Kaycee/ Siemens/ C&S
32	CT/PT	AE/Gilbert / Precise/ C&S/
33	Aviation Light	Bajaj/Wipro/Philips
34	Photo Chromatic Switch	Bajaj/Wipro/Philips
35	Lightning Arrestor	DEHN/ Furse/ OBO
36	Surge Arrestor	DEHN/ OBO/ Furse
37	Annunciation Panel	Crompton/ Schneider/ Kirloskar/ ABB/ Siemens
38	APFCR	L&T/Siemens/Ducati/ Schneider
39	Terminal Blocks	BCH/Industrial Control/ L-Mak/ Jainson
40	Change Over Switch	L&T/Socomec/Siemens/Emerson
41	Bus Duct/Rising main (Sandwich)	L&T (Henikwon)/ Godrej/ Schneider/C&S
42	Rising main (Sandwich)	L&T (Henikwon)/ Godrej/ Schneider/C&S
43	Bus bar	Jindal/Indalco/Century
44	PLC	Allen Bradley /Siemens/ Schneider
45	Invertor	Luminous/Microtec/Sukam
46	Chemical Earthing	Vnt/ Terecplus/ Erico



REMARKS :-

COMPANY LIMITED, PATNA.

Regional Office, Ranjendra Path, Kadamkuan, Patna-800003 [Office Interior Renovation Fit-Out Works]

Drg No :- ID-18022-FLP-SR-101A

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20-09-2018

Approved: Checked:

Dealt:

Scale

Date:

North :-

Rev No :- R1

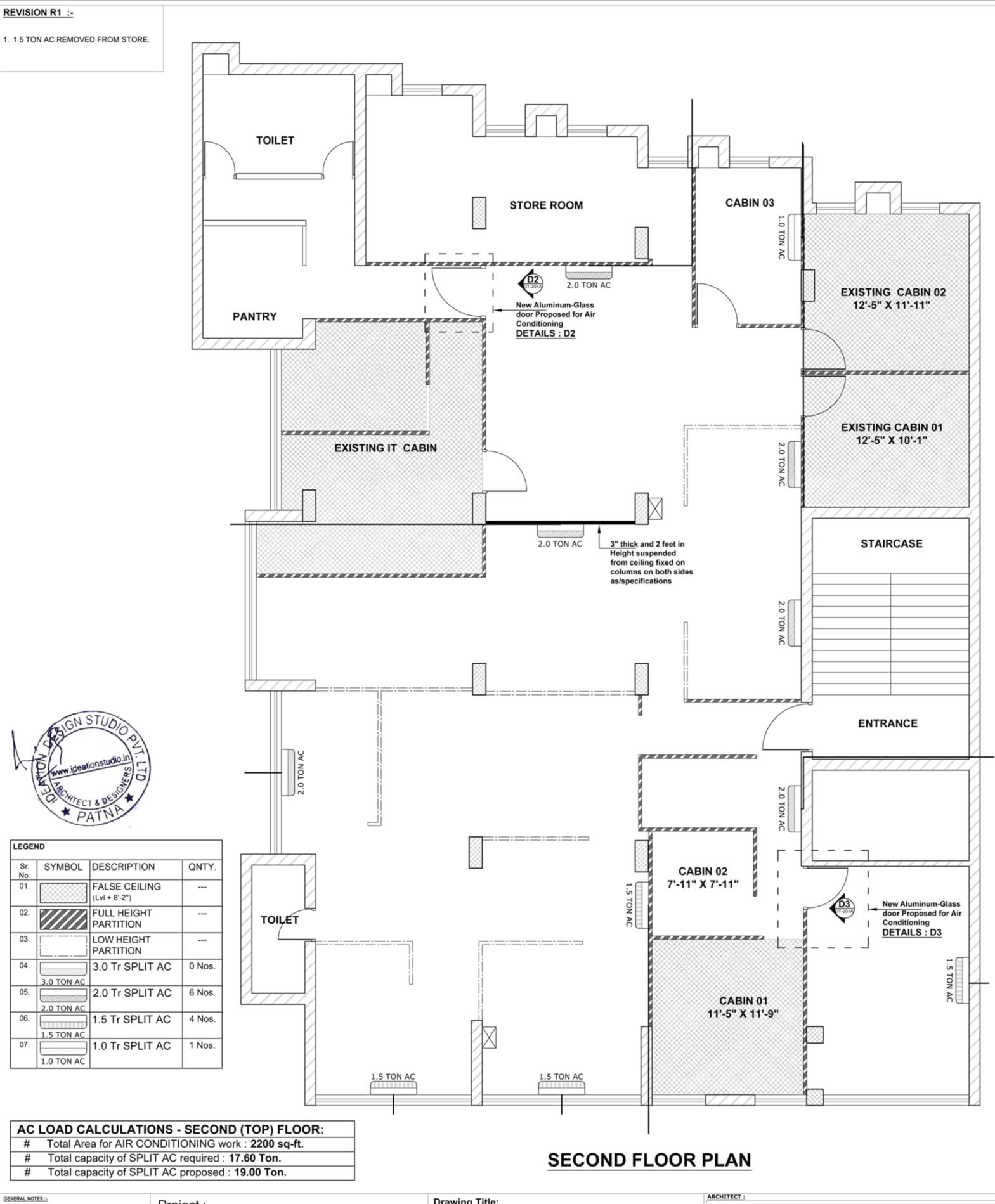
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Structural Consultant :



Services Consultant :

ACE Engineering, Patna



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REMARKS :-

Project :-

ORIENTAL INSURANCE COMPANY LIMITED, PATNA.

Regional Office, Ranjendra Path, Kadamkuan, Patna-800003 [Office Interior Renovation Fit-Out Works]

Drawing Title:

Approved: Checked:

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SPLIT AC LAYOUT PLAN SECOND FLOOR

Drg No :- ID-18022-FLP-SR-102A

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