SCHEDULE OF QUANTITIES FOR AIR CONDITIONING WORKS AT STATE BANK INSTITUTE OF LEARNING AND DEVELOPMENT (SBILD), LUCKNOW(HOSTEL BLOCK)

	AIR CONDITIONING (Super Energy efficient AC)	**Unit**	**Qty**	**Rate**	**Amount**
1	Supply of Ceiling mounted Cassette type AC machines with cordless remote. Indoor and outdoor in specified capacity as detailed condensing unit shall be complete thermatically sealed with rotary compressor, air cooled condenser with fan evaporative unit shall consist of a fan section with dynamically balanced centrifugal fan driven by FHP motor, multi rows deep cooling coil of copper tubes with aluminium fins. the evaporing unit shall be equipped with synthetic fiber filter, insulated drain pan, safety control thermostat complete in all respects. 5 star Make following below mentioned technical qualification. Power Supply : 1 Phase, 220-240 Volt or 3-phase 400V, 50 HZ Cooling capacity rated : 10.40-10.60 Kw ISEER Rank- 4.51/4.37 Rated Power Consumption : 2420-3140 watts Compressor Type : Twin Rotary / Rotary Refrigerant : R-32/ R410 A Comprehensive Product warranty : 1 Years Compressor Warranty : 2 Years				
a	Minimum 3.0 tr /4 HP Cassette Split Inverter AC as per above mentioned Specification (Hitachi/Toshiba/ Daikin/ Mitsubishi Heavy Electrical/O General/Voltas/ Bluestar/ Carrier)	Nos.	4		
b	Minimum 2.0 tr /3 HP Cassette Split Inverter AC as per above mentioned Specification (Hitachi/Toshiba/ Daikin/ Mitsubishi Heavy Electrical/O General/Voltas/ Bluestar/ Carrier)	Nos.	2		
2	Supply of HIGH WALL mounted SPLIT INVERTER AC machines with cordless remote. Indoor and outdoor in specified capacity as detailed condensing unit shall be complete thermatically sealed with rotary DC Invertor compressor, air cooled condenser with fan evaporative unit shall consist of a fan section with dynamically balanced centrifugal fan driven by FHP motor, multi rows deep cooling coil of copper tubes with aluminium fins. the evaporing unit shall be equipped with synthetic fiber filter, insulated drain pan, safety control thermostat complete in all respects. Copper condenser coils and Copper cooling coils company provided copper refrigerant pipe complete in all respects. 5 star Make following below mentioned technical qualification. Power Supply: 1 Phase, 220-240 Volt, 50 HZ Cooling capacity rated full/ Half : 3.5-3.7 Kw/ Tonne Rated Power Consumption : 925-1150 watts/ tonne Annual Power Consumption : 525-600 kWH/ Tonne ISEER : 5-5.2 Star Rating : 5 Star Voltage Range: 187-265 Volt Operating Voltage : 5.5-7.0 amps Compressor Type : Hermetic Rotary / Rotary/ Hyper Rotary/ Swing				
	Refrigerant : R290 or R410 A or R32 Operating Range: *CDB : 16/18-52 Operating sound Indoor: 48-52 DB Operating sound Outdoor: : 55-58 DB Comprehensive Product warranty : 3 Years Compressor Warranty : 5 Years				
a	Minimum 2.0 tr High Wall Split inverter AC (Hitachi/ Daikin/ Mitsubishi Heavy Electrical/O General/Toshiba/Voltas/ Bluestar/ Carrier)	Nos.	2		
b	Minimum 1.5 tr High Wall Split inverter AC (Hitachi/ Daikin/ Mitsubishi Heavy Electrical/O General/Toshiba/ Voltas/ Bluestar/Carrier)	Nos.	13		
3	**Installation**				
a	Installation, testing and commissioning of above specified cassette type air-conditioner with wall cutting/ mounting including making good of damages complete in all respects.	Nos.	6		

b	Installation, testing and commissioning of above specified hi wall type air-conditioner(including old Acs) with wall cutting/ mounting including making good of damages complete in all respects.	Nos.	15		
4	**Copper refrigerant pipe**				
a	P & F Copper refigerant piping for split units duly insulated with elastometric nitrile rubber tubular insulation (9mm) between each set of indoor & out door unit (suction and discharge) for above mentioned **cassette units** to interconnect indoor unit and outdoor unit, relevant sizes as per manufactures specifications including cutting and chiselling and repairing of wall / designated areas complete fine finish.(MAKE :Padliwal/ Hitachi/Totaline/ Met Tube/ Diamond/ Star/ Camipro.) suitable for upto 3.0 Tr and 2 Tr capacity	Rmt.	90		
b	P & F Copper refigerant piping for split units duly insulated with elastometric nitrile rubber tubular insulation (9mm) between each set of indoor & out door unit (suction and discharge) for above mentioned **Hi wall split** units to interconnect indoor unit and outdoor unit, relevant sizes as per manufactures specifications including cutting and chiselling and repairing of wall / designated areas complete fine finish.(MAKE: Padliwal/ Hitachi/Totaline/ Met Tube/ Diamond/ Star/ Camipro.) suitable for upto 2.0 Tr capacity	Rmt.	120		
5	**Communication wire**				
a	Supply, installation, testing and commissioning of inter connecting wiring/ cabling between indoor and outdoor of **Cassette and Tower AC** (power supply will be made available at the outdoor unit, please quote accordingly) in concealed manner with chiseling either on wall or under floor including making good of damages with plaster, putty and paint.	Rmt.	110		
b	Supply, installation, testing and commissioning of inter connecting wiring/ cabling between indoor and outdoor of **hi wall split AC** (power supply will be made available at the outdoor unit, please quote accordingly) in concealed manner with chiseling either on wall or under floor including making good of damages with plaster, putty and paint.	Rmt.	140		
6	**Drain Pipe**				
a	P & F INSULATED condensate drain water piping flexible PVC with all bends, junctions and accessories approved make duly insulated to nearest drain trap including cutting and repairing the wall to the existing situation complete - 32mm dia. (Kissan/ National/Supreme/Finolex/Prakash)	Rmt.	60		
b	P & F INSULATED condensate drain water piping flexible PVC with all bends, junctions and accessories approved make duly insulated to nearest drain trap including cutting and repairing the wall to the existing situation complete - 25mm dia. (Kissan/ National/Supreme/Finolex/Prakash)	Rmt.	80		
7	P & F MS stand (A.C.) for condenser made of as design MS angle section fixed on the wall complete with welding. Grinding and painting with redoxide paint complete (all above AC)				
a	MS stand 'L' angle frame or terrace/wall mounted company make for Casseette AC	Nos.	6		

b	MS stand 'L' angle frame or terrace/wall mounted for hi wallAcs	Nos.	15		
8	P & F VOLTAGE STABLIZERS with 3 step relay and TDR with input voltage range of 140-280 and output to be 230 v (MAKE: Servel/ V Gaurd/ Marc/ Inmag/Microtek/ Servocon) copper winding stablizers				
i	7.5 KVA	Nos.	4		
ii	5 KVA	Nos.	4		
iii	4 KVA	Nos.	13		
9	Dismanteling of 4/3/2Tr tower AC/ 2Tr/1.5 Tr split AC from existing premises including gas backing, shifting and safe keepingat new location in same premises.	Nos.	21		
10	Core cutting/ wall/floor chiseling upto 75mm width and 50 mm depth for concealing the copper pipe, drain pipe and conduit either on wall or under floor including making good of damages with plaster, putti and paint.	Mtr	40		
	Total				
					Including GST