	HVAC WORK BOQ SBI NBCC BRANCH NDM	В			
	CUB HEAD AT HAAC ECTIMATE COT NOCCORDANGE AND A				
1	SUB HEAD-VI HVAC ESTIMATE SBI NBCC BRANCH NDMB Propeller Fairs		2.	Rate	Amount
	1 Topeller 1 alls	Unit	Qty.	(Rs.)	(Rs.)
	Supplying, installing, testing and commissioning of direct driven PROPELLER FANS for				
	exhaust/fresh air as shown in drawings. Each fan shall be complete with permanent split				
	capacitor or shaded pole motor, mounting plate, accessories like wire guard, bird screen				
	and fixed louvers for weather protection as required. Fan shall be provided with speed				
	regulator and NC level 3M away from source shall be less than 55db. Fan selection arrangement and Electrical characteristics shall be as follows:				
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i	150 mm dia 1400 RPM fan suitable for 220±6% volts 50 cycles, 1 phase AC supply in				
	plastic body ,Designer fan as approved by Interior Designer.	Nos.	17		
2	Ball Valves (For Drain purpose in forged brass/Gun metal construction with				
	screwed end)				
	Providing and fixing in position the following ball Valves as per the specifications. Quoted				
	price shall be inclusive of insulation as per the specifications and of PN-16 rating.				
i	20 mm dia	Nos.	10		
ii	15 mm dia	Nos.	6		
3	Auto air Purge				
	Providing and fixing in position the following automatic purge valve with ball valve.				
	15mm dia	Nos.	8		
					1
5	Condensate Drain Piping				1
	Supply, installation, testing and commissioning of condensate drain water piping of uPVC complete with fittings like elbows, tees, reducers, bends, U-traps, braided				
	flexible pipe connections with GI clamps, flanges, supports, solvent etc. as required				
	conforming to tender specifications and of following sizes.				
<u>i</u>	20 mm dia pipe	Rmt	60		
6	Factory Fabricated GI Duct				
0	Factory Fabricated Griduct				
	Supply, fabrication, Installation, testing and commissioning of factory fabricated				
	rectangular ducts using G.I Sheets (120GSM coating). The price shall include factory				
	fabricated MS flanges (wherever required), turning vanes, splitter dampers, supports				
	(factory fabricated, full threaded G.I rod/hangers & G.I slotted channel), sealant,				
	neoprene gasket, access door etc.as required and as per ISI specifications. The joints				
	shall be with least leak and shall be tested with pressure testing machine of approved				
	vendor.Corrective action shall be taken ,if the leakge is more than the permissible limit.				
i	24 gauge galvanized sheet steel	Sq.m	1850		
ii	22 gauge galvanized sheet steel	Sq.m	400		
iii	20 gauge galvanized sheet steel	Sq.m	60		
	zo gadgo garranizoa ondot didor	Oq	- 00		
7	GSS VOLUME CONTROL DAMPER				
	Supply, installation, testing and balancing of opposed multiblade box type GI volume				
	control damper within ducts to be provided with suitable links, levers and quadrants for manual control of volume of air flow and for proper balancing of the air distribution				
	system as per approved shop drawings & specifications	Sqm	10		
	5)	- q			
8	SUPPLY/RETURN AIR SLOT DIFFUSERS				
	Supply, installation, testing & commissioning of Extruded Aluminium powder coated				
	Supply/Return Air linear Slot Diffusers with all side flanges with out damper.Slot diffusers shall be supplied in accordance with specifications and approved shop				
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i	1 Slot (20mm gap)	Rmt	RO		
ii	2 Slot (20mm gap)	Rmt	75		
iii	3 Slot (20mm gap)	Rmt	30		1
9	SUPPLY/ RETURN AIR DIFFUSERS				1
	Supply, installation, testing and balancing of square, rectangular and round extruded				
	aluminium powder coated Supply/ Return Air diffusers. Diffuser shall be with spring				
	loaded removable core type distribution grid , key operated aluminium black matt finish				
	dampers .Diffusers shall be supplied in accordance with specifications and approved shop drawings.	Sqm	10		
	and araningo.	Oqiii	.0		
10	LINEAR GRILL (FIXED BAR)				
	Supply, installation, testing & balancing of removable core type ,continuous, linear, fixed				
	bar extruded aluminium powder coated Supply Air / Return Air / Exhaust Air grills, normal				1
	flow, 15° angle one way / two way deflection with all sides flanges.Blade thickness shall be minimum from in front and 1.0 mm in root side Grills shall be supplied in accordance				
	be minimum 5mm in front and 1.0 mm in rear side. Grills shall be supplied in accordance with specifications and approved shop drawings.				
	opesoutone and approved stop drawings.				1
а	200 mm/150mm/100mm High	Sqm	20		
14	VCDs EOR LINEAR CRILL CURRILY AIR COLLARS				-
11	VCDs FOR LINEAR GRILL SUPPLY AIR COLLARS Supply, installation, testing & balancing of key operated extruded Aluminium volume	Sam			
		Oqiii			1
	control dampers in black mat finish for supply/return/exhaust air duct collars as per		20		

12	FLEXIBLE CONNECTION FOR DUCTS				
	Supply,installation and testing of double layer flexible duct connector consisting of a	Sqm			
	flame retardant fabric secured to extruded aluminium frame on both sides to provide a				
	wear resistant airtight flexible connection. Fabric shall be mildew resistant, water proof		40		
	and silicon impregnated. Flexible connector shall be supplied in accordance with the				
	specifications and drawings.				
	<u>,</u>				
13	Thermal Insulation(Internal ducting):				1
	Supply & installation of external thermal insulation on ducts with approved sample of				
	black colour factory laminated fibre glass cloth on closed cell nitrile rubber/Aluminium				
	foil faced XLPE duct insulation with density 40-60 Kg/ Cum for nitrile rubber & density 25-				
	30 Kg/Cum for XLPE, class 'O' complete as per specifications. All longitudnal and				
	transverse joints shall be sealed with 50mm wide and 3mm thick Nitrile rubber /XLPE				
	tape .The cost shall be inclusive of Low VOC adhesive				
а	13mm thick	Sqm	2310		
14	Acoustic lining				
	Supply & Installation of acoustic lining within supply and return air ducting using open				
	cell elastomeric insulation/XLPE insulation with 140-160 Kg/cum. density.All ducts				
	shown cross hatched on the approved shop drawings shall be provided with acoustic				
1	lining as per the specifications. The cost shall be inclusive of low VOC adhesive	1			
L	·	L	L !	<u> </u>	<u> </u>
	15 mm thick	Sqm	100		
		1 4			
15	Supplying, erection, testing and commissioning following wall mounted Split/ Root				1
''	mounted cassette units of (Toshiba/ Mitsubhishi/ Hitachi/ Daikin/O-	1			
1	General/Carrier/Voltas) with cordless remote complete with all necessary fittings duly	1			
1	insulated with 9 mm thick nitrile rubber pipe insulation with (all coils - copper only), fan				
1	and fan motor, machine control panel improved Refrigerant Joints, .Air conditioners shall				
1	be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled				
1	rotary compressor or scroll compressor. Compressor unit operating on R32/ R-410. All				
ĺ	complete as per drawing, approval and instructions of the Architect/ Employer (Rates to	ĺ			I
1	be inclusive of Copper refrigerant pipe with insulation and Drain pipe up to 3 Mtr length).	l			I
1	Item to include powder coated outdoor stands as per the manufacturer	l			I
L	specifications.	<u> </u>	L		
	2 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary	Nos.	10.00		
а	1				
a	fittings and mountings as specified by the manufacturer.		10.00		
а			10.00		
a 16			10.00		
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