S.I.T.C OF ONE NO. OF 300 TR CHILLER PALNT AT SYNERGY LHO MUMBAI

C ₁ , N	S.I.T.C OF ONE NO. OF 300 TR CHILLER PALNT				
Sr. No.	Description A	ŲΙΥ	UNI	RATES	AMOUNT
	SECTION -A				
1	Water Cooled Screw Chiller				
1.1	Supply and commissioning of 300 TR capacity Water-cooled				
	twin screw Compressor technology , microprocessor based				
	control panel,cooler, water-cooled condenser coil, refrigerant				
	piping, with factory fitted coupling, factory wired power and				
	control cabling. It should have BMS connectivity, Remote and				
	required controling devices etc.				
	Compressor Technology Chiller designed at 12/7 Deg C				
	Evaporator Temperature and 36 Deg C Ambient				
	conditions				
	300 TR Water Cooled Screw Chiller with Twin Screw Compressor				
	Technology Chiller designed at 12/7 Deg C Evaporator		l		
	Temperature and 36 Deg C Ambient conditions (any		Nos		
	dismentling and reassemble at the site will be in the scope of				
	vendor)				
	Total of High side				
	SECTION -B				
1.0	Installtion testing and commissioning of 300 TR capacity Water-				
	cooled twin screw Compressor technology, microprocessor				
	based control panel,cooler, water-cooled condenser coil,				
	refrigerant piping, with factory fitted coupling, factory charged	1	Job		
	R134A/ ecofriendly refrigerant, factory wired power and control	1 -	305		
	cabling. It should have BMS connectivity & Remote monitoring				
	feature as directed by architect/engineers				
	, , , , , , , , , , , , , , , , , , ,				
2	Pumps				
2.1	Chilled Water Pumps-				
	S.I.T.C OF End Suction Back pullout Centrifugal pump				
2.1.1	for chilled water line with coupling with following tech	2	Nos		
	specifications as directed by architect/engineers (Make				
a	Water Qty : 180 CMH				
b	Static Head : 18 Mtrs				
С	Impeller : Bronze				
d	Speed : 1450 Rpm				
е	Seal : Mechanical				
f	KW/HP : 15/20				
2.2	Condenser Water Pumps -				
	S.I.T.C End Suction Back pullout Centrifugal pump for				
2.2.1	condenser water with drive motor and coupling with	1	Nos		
	following tech specifications as directed by architect/engineers	-			
	5 ,				
- 2	Water Qty : 274 CMH				
a					
b	Static Head: 30 Mtrs				
	Impeller : Bronze				
d	Speed : 1450 Rpm				
e	Seal : Mechanical				
<u> </u>	KW/HP : 37/50				
		<u> </u>	<u> </u>		i

3	MC Dining			
 3	MS Piping Cumply Installation Testing & Commissioning of the			
	Supply, Installation, Testing & Commissioning of the			
	following MS class 'C' pipes cut to required lengths with 32mm			
	Thick Nitrile Rubber insulation with Glass Cloth and installed			
3.1	with all welded joints, providing and fixing in position the			
	necessary fittings like Elbows, Tees and Reducers for Chilled			
	Water Line to be connected with existing piping as directed			
	by architect/engineers			
а	200 mm dia	40	RMT	
b	150 mm dia	10	RMT	
С	80 mm dia	150	RMT	
4	Valve Station			
	SITC of Valves comprising Butterfly, Balancing, NRV's, Check,			
	Bleed, Ball, Flow Switches, Temperature & pressure			
4.1	Guages for Chilled Water Line as directed by architect/engineers			
	duages for Crimed water Line as directed by architect/engineers			
a	Butterfly Valve - 200 mm dia PN16	10	Nos	
b	Butterfly Valve - 150 mm dia PN16	1	Nos	
		3		
С	Butterfly Valve - 80 mm dia PN16	3	Nos	
4.2	Non return valve			
		1	Nac	
a	Non return Valve - 200 mm dia PN 16	4	Nos	
b	Non return Valve - 150 mm dia PN 16	1	Nos	
С	Non return Valve - 100 mm dia PN 16	0	Nos	
4.3	Balancing Valve			
			NI	
a	Manual Balancing Valve - 200 mm dia PN 16	5	Nos	
b	Manual Balancing Valve - 150 mm dia PN 16	0	Nos	
С	Manual Balancing Valve - 100 mm dia PN 16	0	Nos	
4.4	BALL VALVE			
	Ball Vave for drain - 50 mm dia	6	Noc	
d		6	Nos	
	Ball Vave for drain - 32 mm dia	8	Nos	
	Ball Vave for drain - 25 mm dia	0	Nos	
4.5	Duraning Course 0 to 10! / 2	10	N.	
4.5	Pressure Gauge 0 to 10kgs /cm2	10	Nos	
4.5	Towns with the Course O.E. 50 D.	10	N.	
4.6	Temperature Gauge 0 to 50 Degree C	10	Nos	
4.7	RUBBER BELLOW			
	Rubber bellow -200 mm dia	10	Nos	
a		10		
b	Rubber bellow -150 mm dia	1	Nos	
С	Rubber bellow -100 mm dia	0	Nos	
4.8	Y STRAINER			
		7	Non	
h	Y strainer - 200 mm dia	2	Nos	
	Y strainer - 150 mm dia	0	Nos	
	Y strainer - 100 mm dia	0	Nos	
4.0	A: \/ t	_	N.I.	
4.9	Air Vent	3	Nos	
	Note: Chatian			
5.0	Valve Station			
	SITC of Valves comprising Butterfly, Balancing, NRV's, Check,			
	Bleed, Ball, Flow Switches, Temperature & pressure			
	Guages for Condenser Water Line as directed by			
5.1	architect/engineers			
а	Butterfly Valve - 200 mm dia PN16	4	Nos	
	-			

	I			
b	Butterfly Valve - 150 mm dia PN16	0	Nos	
С	Butterfly Valve - 100 mm dia PN16	0	Nos	
5.2	Non return valve			
a	Non return Valve - 200 mm dia PN 16	2	Nos	
b	Non return Valve - 150 mm dia PN 16	0	Nos	
С	Non return Valve - 100 mm dia PN 16	0	Nos	
5.3	Balancing Valve			
	Manual Balancing Valve - 200 mm dia PN 16	1	Nos	
a				
b	Manual Balancing Valve - 150 mm dia PN 16	0	Nos	
С	Manual Balancing Valve - 100 mm dia PN 16	0	Nos	
5.4	BALL VALVE			
a	Ball Vave for drain - 75 mm dia	2	Nos	
b	Ball Vave for drain - 50 mm dia	1	Nos	
С	Ball Vave for drain - 32 mm dia	0	Nos	
d	Ball Vave for drain - 25 mm dia	0	Nos	
u	Dali vave for drain - 23 min dia	- 0	1105	
5.5	Pressure Gauge 0 to 10kgs /cm2	4	Nos	
٥.٥	rressure dauge o to 10kys /CIIIZ	4	NUS	
E <i>C</i>	Tomporature Cauge O to EO Degree C	1	Noc	
5.6	Temperature Gauge 0 to 50 Degree C	4	Nos	
5.7	LY STRAINER			
			Nas	
h	Y strainer - 200 mm dia	1	Nos	
	Y strainer - 150 mm dia	0	Nos	
	Y strainer - 100 mm dia	0	Nos	
6	Chilled water piping insulation for existing chilled water pipes of			
	250 mm to 50 mm Dia wherever require as per site condition.			
	Vendor shall remove existing damged insulation and replace the			
	same as per following specification as directed by			
	architect/engineers			
6.1	Supply & Installation Insulation with 25 mm thick Physically			
0.1	crosslinked polyolefin foam with factory laminated heavy duty			
	and ultra tough multi-layered composite aluminum foil facing	50	Rmt	
	with puncture resistance of >400N as per ASTM D4833 and			
	Class 0 fire properties as per BS 476 Part 6 & 7sheet cladding.			
7	Electrical			
7.1	Power Cabling			
a	S.I.T.C. of 4 core 16 Sgmm Cu Armoured cable with 1 runs of			
u	8 SWG GI bare wire for Chilled Water Pump	30	Rmt	
L	•			
b	S.I.T.C. of 4 core 10 Sqmm Cu Armoured cable with 1 runs of	50	Rmt	
	8 SWG GI bare wirefor Condenser Water Pump			
С	S.I.T.C. of 4 core 6 Sqmm Cu Armoured for Cooling Tower	50	Rmt	
8	S.I.T.C. of Structural steel for Chiller & Pipe	50	kg	
9	Scaffolding Charges for Dismantling and Fixing MS			
,	Piping	1	Lot	
10		1	m = -	
10	S.I.T.C of spring Isolator	4	nos	
11	Lifting of Condenser Pipe and Shifting of	1	Lot	
	Chiller, Pumps		LUC	
	Additional shares of Defrigorant for			
12	Additional charge of Refrigerant for			
12	Additional charge of Refrigerant for 300Tr chiller	1	lot	
	300Tr chiller	1	lot	
12		1	lot Job	

14	Core cutting 5 inch with leak proof & chemical grouting	6	Nos	
В	Total of low side			
	SECTION -C			
С	Less buy back of existing chiller (1No 300 TR)with accessoriese (dismentling of items will be in vendor scope of work)	-1	lot	
	Total HIGH SIDE +low side (A+B)			
D	Total high and low side- Buy back (A+B-C)			
F	GST Extra			