

PRICE BID

BHARAT HEAVY ELECTRICALS LIMITED RAMACHANDRAPURAM, HYDERABAD-32 M&S/AC DEPARTMENT

Tender schedule for the work of "Maintenance (AMC) of selected Package units, Central AC's, Oil chillers, Panel A.C's., Pendent AC's and Air Driers totaling 2737 TR capacity".

TENDER NOTICE No.: HY/M&S/AC/AMC/13-14/2001/21, Date: 22-01-2014

SCOPE OF WORK:

The works are to be carried out in accordance with IE rules 1956.

The quantities indicated are tentative and may increase or decrease. Any other works not mentioned but required for completion of the project are to be carried out by the contractor.

The contractor should follow all the statutory requirements, Environmental Management System (EMS), Occupation Health and Safety Management System (OHSAS) while executing the work.

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
I. CENTRAL PLANTS										
1	01 Comp. Testing CO2 bulk plant	Near house Side Boiler Back	CP -17	1.5	1.5	Central Plant : - Bitzer 111 Voltage : 415 V 3 Ph R : 22 Capacity : 4,500 K.Cal Year : 1989	1			
2	9FA Block	9 FA assy. block	CP -29 to 32	40 X 4	160	Central Plant : - Batliboi S.sealed Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 2009	4			
3	02- Impregnation plant	02- Block	CP -13/14/28	40 X 3	120	Central Plant : - Voltas 5H40 Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 1988-2 nos., 2007	3			
4	02- Impregnation plant New	02- Cross Bay	CP - 33,34	50 X 2	100	Central Plant : - Carrier, 50 X 2 nos. Voltage : 415 V 3 Ph R : 407 Capacity : 1,00,000 K.Cal Year : 2012	2			
5	02-Coil winding (Taping section)	02- Block	CP -16	40	40	Central Plant : - Voltas 5H40 Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 1988	1			
6	06 - Central Archieves	06-Annexure back side	CP -10	40	40	Central Plant : - Voltas 5H40 Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 1984	1			
7	27 Stores (insulating material)	90 Bldg. West side	CP -20	20	20	Central Plant : - Voltas 5F20 Voltage : 415 V 3 Ph R : 22 Capacity : 60,000 K.Cal Year : 1990	1			
8	29 Building Material lab.	90 Bldg. West side	CP -27	40	40	Central Plant : - Voltas 5H40 Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 2000	1			
9	91 Central gauging centre	91-Building	CP -18	40	40	Central Plant : - Voltas 5H40 Voltage : 415 V 3 Ph R : 22 Capacity : 1,20,000 K.Cal Year : 1990	1			
10	Gen.Hospital Mortuary	Right side of G.H	CP -12	10	10	Central Plant : - Danfoss Scrol 5x2 Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1988	1			
					572		16			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
II. PACKAGE AIR CONDITIONERS										
1	Admn.Building HR dept.	Adm.G.floor	PKG - 133, 134	15.5 X 2	31	Package Plant : - Voltas 15.5 X 2 Voltage : 415 V 3 Ph R : 22 Capacity : 46,500 K.Cal Year : 2011	2			
2	Admn.Building Conference hall	Adm.1st floor	PKG - 37, 38, 39	10 X 3	30	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1995	3			
3	Admn.Building (wages & finance)	Adm.1st floor	PKG-114 to123	17 X 10	170	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2009	10			
4	Admn.Building Commercial dept.	Adm.3rdfloor	PKG - 97 to101	17 X 5	85	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2008	5			
5	Admn.Building purchase dept.	Adm.4thfloor	PKG-106 to110	17 X 5	85	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2008	5			
6	IT Bldg Data processing center	IT building	PKG-124 to127	17 X 4	68	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2009	4			
7	Telephone Exchange	Adjustent to IT building	PKG - 53,54	15 X 2	30	Package Plant : - Voltas 6D 48x2 Voltage : 415 V 3 Ph R : 22 Capacity : 45,000 K.Cal Year : 1999	2			
8	Project - Civil office	Near 90 build.	PKG-111 to113	17 X 3	51	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2009	3			
9	Safety department	Near 'J' gate	PKG - 131, 132	17	17	Package Plant : - B.Star 8.5 X 2 Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2011	1			
10	6 MW diesel power house	Near 'J' gate	PKG - 48,49	10 X 2	20	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal x2 Year : 1997	2			
11	Gen.Hospital Operation Theatre	BHEL T/S	PKG -13, 52, 76,77	7.5 X 1 10 X 3	37.5	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1985, 2000	4			
12	01-Engineering building. New	Adjustent to 01 Annex.	PKG-58to72,73	15 X 16	240	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 45,000 K.Cal Year : 1999	16			
13	01-Engg. Bldg P.C. room	Left side of Engg. Bldg.	PKG - 33,34	7.5 X 2	15	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1992	2			
14	01-GT Test Bed CR I & II	01 cross bay assembly	PKG - 24,25,26	7.5 X 3	22.5	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1987	3			
15	01-MAB testing	01- Block	PKG - 78	10	10	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 2000	1			
16	01-5 axis CNC center	End bay of 01 block	PKG - 42 to 46	10 X 5	50	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1996	5			

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17	01 - Buckets & Nozzles	End bay of 01 block	PKG - 80 to 85	17 X 6	102	Package Plant:-Carrier 8.5x2 each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2003	6			
18	01 Compre. testing control room	01-Block	PKG - 19,20,21	5 X 1 3 X 2	11	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 15,000 K.Cal Year : 1984	3			
19	01 - SpinTest chilling unit	01 near compressor testing	PKG - 30	10	10	Package Plant : - Bock S.sealed Voltage : 415 V 3 Ph R : 404 Capacity : 30,000 K.Cal Year : 1997	1			
20	9 FA control rooms	9 FA test block	PKG - 128,129,130	8.3 X 2 11 X 1	27.5	Package Plant:- Batliboi8.3 x 2 Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2010	3			
21	02 (EM) Engg. PC room	02 Annexure left side	PKG - 52, 53	10 X 2	20	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal x2 Year : 1997	2			
22	02 Test pit control room	02 - Block	PKG - 35	7.5	7.5	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1992	1			
23	02 Super Bay	03 - Block	PKG - 86 to 95	16.5 X 10	165	Package Plant:-Batliboi5.5x3each Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2006	10			
24	06 Annexure Electronics Dept.	06 annex 1st floor	PKG - 96	11	11	Package Plant:- Batliboi5.5 x 2 Voltage : 415 V 3 Ph R : 22 Capacity : 51,000 K.Cal Year : 2007	1			
25	06-kolb Control Room with 6D48	06-Bay-4 D-13	PKG - 40	7.5	7.5	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1995	1			
26	07 Jig boaring machine center	07-Bay-1 A-12	PKG - 12,56,57	8 X 1 8.5 X 2	25	Package Plant : - Carrier Duct. AC Voltage : 415 V 3 Ph R : 22 Capacity : 8.5 TR X 2,8TR- One Year : 1968 B/S, 1999 Carrier	3			
27	27 Stores (insulating material)	90 bldg. G.floor left side	PKG-41, 79	10 X 2	20	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1987	2			
28	51-VDF contrl room	51-Bay -2 C-5	PKG - 36	7.5	7.5	Package Plant : - Voltas sealed Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1999	1			
29	70 bldg. pump testing	70- Pumps	PKG - 47	10 X 1	10	Package Plant : - B.Star 5X2sealed Voltage : 415 V 3 Ph R : 22 Capacity : 30,000 K.Cal Year : 1997	1			
30	71-Balancing Tunnel	02-near super bay	PKG - 22, 23	7.5 X 2	15	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1984	2			
31	30TPH Boiler control room	New boiler control room	PKG - 55	15	15	Package Plant : - Voltas 6D 48x2 Voltage : 415 V 3 Ph R : 22 Capacity : 45,000 K.Cal Year : 1999	1			
32	20TPH Boiler control room	Old boiler control room	PKG - 29	7.5	7.5	Package Plant : - Voltas 6D 48 Voltage : 415 V 3 Ph R : 22 Capacity : 22,500 K.Cal Year : 1989	1			
					1393		107			

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III . CNC Machine connected OC, PAC, PND, AD equipment										
1	NBS - BFW H440a	NBS	1.2301	3	3	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 9000 K.Cal Year : 08/2008	1			
				1	1	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 3000 K.Cal Year : 08/2009	1			
				1 X 2	2	Panel AC : - Advance(2No,s) Voltage : 230 V R : 134a Capacity : 1450 K.cal Year : 08/2009	2			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 160 W Year : 08/2009	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 08/2009	1			
2	NBS - BFW H440a	NBS	1.2302	3	3	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 9000 K.Cal Year : 10/2009	1			
				1	1	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 3000 K.Cal Year : 06/2009	1			
				1 X 2	2	Panel AC : - Advance(2No,s) Voltage : 230 V R : 134a Capacity : 1450 K.Cal Year : 09/2009	2			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 1800 W Year : 08/2009	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 09/2009	1			
3	NBS - BFW H650a	NBS	1.2303	3	3	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 9000 K.Cal Year : 05/2009	1			
				1	1	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 3000 K.Cal Year : 05/2009	1			
				1 X 2	2	Panel AC : - Advance(2No,s) Voltage : 230 V R : 134a Capacity : 1450 K.Cal Year : 04/2009	2			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 160 W Year : 04/2009	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 04/2009	1			

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4	NBS - BFW H650a	NBS	1.2304	3	3	Oil Chiller :- Advance Voltage : 415 V R : 134a Capacity : 9000 K.Cal Year : 08/2009	1			
				1	1	Oil Chiller :- Advance Voltage : 415 V R : 134a Capacity : 3000 K.Cal Year : 10/2009	1			
				1 X 2	2	Panel AC :- Advance(2No,s) Voltage : 230 V R : 134a Capacity : 1450 K.cal Year : 06/2009	2			
				1	1	Pendent Cooler :- Advance Voltage : 230 V R : 134a Capacity : 160 W Year : 06/2009	1			
				1	1	Air Drier :- ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm. Year : 06/2009	1			
5	NBS - BFW H650a	NBS	1.2305	3	3	Oil Chiller :- Advance Voltage : 415 V R : 134a Capacity : 9000 K.Cal Year : 09/2009	1			
				1	1	Oil Chiller :- Advance Voltage : 415 V R : 134a Capacity : 3000 K.Cal Year : 09/2009	1			
				1 X 2	2	Panel AC :- Advance(2No,s) Voltage : 230 V R : 134a Capacity : 1450 K.Cal Year : 08/2009	2			
				1	1	Pendent Cooler :- Advance Voltage : 230 V R : 134a Capacity : 160 W Year : 08/2009	1			
				1	1	Air Drier :- ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 09/2009	1			
6	NBS - BFW Bmv 60TC 20	NBS	1.2306	1	1	Oil Chiller :- Advance Voltage : 415 V R : 134a Capacity : 1960 K.Cal Year : 10/2009	1			
				1	1	Panel AC :- Advance Voltage : 230 V R : 134a Capacity : 1450 K.Cal Year : 09/2009	1			
				1	1	Air Drier :- ELGI Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 09/2009	1			
7	NBS - Favrettoe FMTMC -130	NBS	1.2309	2	2	Oil Chiller :- Voltage : 415 V R : 22 Capacity : 6000 K.Cal Year : 4737/10	1			
				1	1	Panel AC :- Rittal Voltage : 415V R : 134a Capacity : 1450 K.Cal Year : 01/9/2009	1			
				1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 1800 W Year : 23/10/2009	1			
8	Favrettoe FMTMC -130	NBS	1.2310	2	2	Oil Chiller :- Voltage : 415 V R : 22 Capacity : 6000 K.Cal Year : 4737/10	1			

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				1	1	Panel AC : - Rittal Voltage : 415V R : 134a Capacity : 1500 W Year : 21/8/2009	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 1800 W Year : 23/10/2009	1			
9	NBS - ANCA RX7	NBS	1.2311	1	1	Panel AC : - Air Con. Voltage : 220 Vac R : 407C Capacity : 550 W Year : 04/2009	1			
10	NBS - ANCA RX7	NBS	1.2312	1	1	Panel AC : - Air Con. Voltage : 220 Vac R : 407C Capacity : 550 W Year : 04/2010	1			
11	NBS - Liechti g-mill 550Twin	NBS	1.2328	3	3	Panel AC : - Schimpre Voltage : 415 V 24DC R : 134a Capacity : 10 KW Year : 12/2009	1			
12	NBS - Liechti g-mill 550Twin	NBS	1.2329	3	3	Panel A/C : - Schimpre Voltage : 415 V 24DC R : 134a Capacity : 10 KW Year : 12/2009	1			
13	NBS - Liechti g-mill 550Twin	NBS	1	3	3	Panel AC : - Schimpre Voltage : 415 V 24DC R : 134a Capacity : 10 KW Year : 12/2009	1			
14	NBS - Starragheckert the milling experts HX 253	NBS	1.2331	2.5	2.5	Oil Chiller : - Schimpre Voltage : 415 V 24 DC R : 134a Capacity : 8.5 KW Year : 04/2010	1			
				2	2	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 85 Cfm Year : 09/2009	1			
15	NBS - Starragheckert the milling experts HX 253	NBS	1.2332	2.5	2.5	Oil Chiller : - Schimpre Voltage : 415 V 24 DC R : 134a Capacity : 8.5 KW Year : 04/2012	1			
				2	2	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 85 Cfm Year : 04/2010	1			
16	Starragheckert the milling experts Lx151	NBS	1.2333	1.5	1.5	Oil Chiller : - Schimpre Voltage : 415 V 24 DC R : 134a Capacity : 3.9 KW Year : 03/2010	1			
17	Hamuel Reichenbacher HSTM 300	NBS	1.2334	1	1	Panel AC : - Rittal Voltage : 415 V R : 134a Capacity : 3000W Year : 11/03/2010	1			
				1.5 X 2	3	Panel AC : - Rittal (2No,s) Voltage : 415 V R : 134a Capacity : 4500 W Year : 03.2010	2			
				2	2	Panel AC : - KLH Kalttechnik Gmbh Voltage : 415 V R : 134a Capacity : 6.5 KW Year : 2010	1			
18	SCHENEK VIBRO TUMBLING MACHINE GALA	9 FA	01A.2324	1	1	Panel AC : - Rittal Voltage : 400 V R : 134a Capacity : 2590 W Year : 2011	1			
19	World Machinery works HMT (BH 109)	9 FA	01A.2308	2.5	2.5	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 7500 KCal/hr Year : 02/2012	1			

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				1 x 3	3	Panel AC : - Rittal (3No,s) Voltage : 230 V R : 134a Capacity : 2000W Year : 12/2004.	3			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 300 W Year : 11/2009	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 20 Cfm Year : 12/11	1			
20	HMT (BH 108)	9 FA	01A.2309	2.5	2.5	Oil Chiller : - Advance Voltage : 415 V R : 134a Capacity : 7500 K Cal /hr Year : 02/2012	1			
				1 X 3	3	Panel AC : - Rittal (3No,s) Voltage : 230 V R : 134a Capacity : 2000W Year : 2012.	3			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 300 W Year : 2012	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 20 Cfm Year : 12/11	1			
21	FPT	9 FA	01A.2304	7.5	7.5	Oil Chiller : - Pfannenberg Voltage : 415 V R : 407 Capacity : 25 KW Year : 02/2012	1			
				4	4	Oil Chiller : - Pfannenberg Voltage : 415 V R : 407 Capacity : 13 KW Year : 2012	1			
				1 X 2	2	Panel AC:-Pfannenberg (2No) Voltage : 230 V R : 134a Capacity : 1.6 KW Year :2012.	2			
				1	1	Pendent Cooler : - Pfannenberg Voltage : 230 V R : 134a Capacity : 300 W Year : 11/2009	1			
				1.5	1.5	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 50 Cfm Year : 12/11	1			
22	PREMIER PTC 2300 (VTL 1.60 m) / 01A.3060	9 FA	01A.3060	2	2	Oil Chiller : - Span associates Voltage : 415 V R : 134a Capacity : 5000 KCal/hr Year :	1			
				1 X 2	2	Oil Chiller : - Span associates Voltage : 415 V R : 134a Capacity : 1285 KCal/hr Year :	2			
				1 X 2	2	Panel AC : - Advance (3No,s) Voltage : 230 V R : 22 Capacity : 2000W Year : 10/11.	2			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 250W Year : 08/2011	1			
				1.5	1.5	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 64 Cfm Year : 12/10	1			

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23	MAG - I-NBH 800	9 FA	01A.2305	1	1	Oil Chiller : - Haber Pasion Voltage : 440 V R : 134 Capacity : 9000 K Cal Year : 2012	1			
				1 x 2	2	Panel AC:- Pfannenber Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2012	2			
				1	1	Panel AC : - Rittal Voltage : 400 V R : 134a Capacity : 780W Year : 2012	1			
24	Mag-II - NBH 800	9 FA	01A.2306	1	1	Oil Chiller : - Haber Pasion Voltage : 440 V R : 134 Capacity : 9000 K Cal Year : 2012	1			
				1 x 2	2	Panel AC:- Pfannenber Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2012	2			
				1	1	Panel AC : - Rittal Voltage : 400 V R : 134a Capacity : 780W Year : 2012	1			
25	Qi Qihar Centre Lathe 3.50m	9 FA	01A.	6 X 4	24	Oil Chiller : - ETE X 4 No's Voltage : 415 V R : 134a Capacity : 20 KW Year : 2012	4			
				1.5 X 3	4.5	Panel AC : - Rittal Voltage : 400 V R : 134a Capacity : 1230 W Year : 22/10/2012	3			
				2	2	Air Drier : - ELGI Voltage : 220 V R : 407 Capacity : 64 Cfm Year : 03/2012	1			
26	QIER / Q2	01-Bay-0 0-3	01-2287	2.5	2.5	Oil Chiller : - Halo Voltage : 415 V R : 407 Capacity : 8850 W Year : 05/09	1			
				1	1	Oil Chiller : - Habo Voltage : 415 V R : 407 Capacity : 2700W Year : 05/09	1			
				1 X 2	2	Panel AC : - Rittal X 2 No's Voltage : 400 V R : 134a Capacity : 1150 W Year : 21/04/09	2			
				1	1	Air Drier : - ELGI Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 03/2011	1			
27	QIER / Q1	01-Bay-0 0-6	01-2286	2.5	2.5	Oil Chiller : - Habo Voltage : 415 V R : 407 Capacity : 8850 W Year : 05/09	1			
				1	1	Oil Chiller : - Habo Voltage : 415 V R : 407 Capacity : 2700W Year : 05/09	1			
				1 X 2	2	Panel AC : - Rittal X 2 No's Voltage : 400 V R : 134a Capacity : 2350 W Year : 21/04/09	2			
				1	1	Air Drier : - ELGI Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 03/2011	1			

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28	Torni Tacchi - 3	01-Bay-0 0 -9	01-2299	3.5	3.5	Oil Chiller :- EATA Voltage : 415 V R : 407 Capacity : 11164 W Year : 2011	1			
				2	2	Oil Chiller :- EATA Voltage : 415 V R : 407 Capacity : 5700W Year : 2011	1			
				1 X 3	3	Panel AC :- Kelvin X 3 No's Voltage : 415 V R : 134 Capacity : 1580 W Year : 2011	3			
				1	1	Air Drier :- ELGI Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 03/2011	1			
29	Torni Tacchi - 2	01-Bay-0 A-9	01-2295	3.5	3.5	Oil Chiller :- EATA Voltage : 415 V R : 134 Capacity : 11,164W Year :	1			
				2	2	Oil Chiller :- EATA Voltage : 415 V R : 407 Capacity : 5700W Year :	1			
				1.5 X 2	2	Oil Chiller :- EATA X 2No's Voltage : 415 V R : 407 Capacity : 3890W Year :	2			
				1 X 3	3	Panel A/C :- Kelvin X 3 No's Voltage : 400 V R : 134a Capacity : 2000 W Year : 2010	3			
				1	1	Air Drier :- ELGI Voltage : 220 V R : 407 Capacity : 20 Cfm Year : 03/2011	1			
30	Qi Q1HAR no.1 Machine tool works	01-Bay-0 0 -13	01-*****	7 X 2	14	Oil Chiller :- Tongfel Refrg. Voltage : 415 V R : 22 Capacity : 20 KW Year : 2012	2			
				1 X 4	4	Panel AC :- Rittal X 4 No's Voltage : 400 V R : 134a Capacity : 3250 W Year : 2012	4			
				2	2	Air Drier :- EIGI Voltage : 220 Vac R : 407 Capacity : 64 Cfm Year : 2005	1			
31	Torni Tacchi - 1	01-Bay-1 A-6	01-2242	3	3	Oil Chiller :- EATA Voltage : 415 V R : 22 Capacity : 11164 W Year : 2005	1			
				2	2	Oil Chiller :- EATA Voltage : 415 V R : 22 Capacity : 5700 W Year : 2005	1			
				1 X 2	2	Panel AC:- Kelvin Voltage : 400 V R : 134a Capacity : 2000 W Year : 2005	2			
				1	1	Panel AC:- Kelvin Voltage : 230 V R : 134a Capacity : 2000 W Year : 2005	1			
				1	1	Air Drier :- GEM Voltage : 220 Vac R : 407 Capacity : 20 Cfm Year : 2005	1			
32	INNSE CNC	01-Bay-1 B-3	01-2192	10	10	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 30000 K Cal Year : 2006	1			
				5	5	Oil Chiller :- Chilton Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2006	1			
				3	3	Panel AC:- Kelvin Voltage : 400 V R : 134a Capacity : 9000 k.cal Year : 1996	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
33	Gantry CNC Toskurm	01-Bay-1 B-5	01-2245	2 X 3	6	Oil Chiller :- Rittal X 3 nos. Voltage : 415 V R :407 Capacity : 5700 W Year : 2012	3			
				1 X 2	2	Panel AC :- Rittal X 4 No's Voltage : 400 V R : 134a Capacity : 3000 W Year : 2010	2			
				1 X 2	2	Panel AC :- Rittal X 4 No's Voltage : 400 V R : 134a Capacity : 3000W Year : 2010	2			
				1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 320 W Year : 01/09/2010	1			
34	Gantry Mch. Drilling	01-Bay-1 B-8	01-2246	5	5	Oil Chiller :- Rittal Voltage : 415 V R :407 Capacity : 16000 W Year : 2008	1			
				1 X 4	4	Panel AC :- Rittal X 4 No's Voltage : 400 V R : 134a Capacity : 1510 W Year : 2010	4			
				1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 320 W Year : 01/09/2010	1			
				1	1	Air Drier :- Premier Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 01/09//2010	1			
35	SKODA - WD 200-2000	01-Bay1-A-13	01-1148,	1	1	Panel AC:- Advance Voltage : 230 V R : 22 Capacity : 1000 k.cal Year : 2000	1			
36	SKODA WD 200	01-Bay1-B-11	01-1156,	1	1	Panel AC:- Advance Voltage : 230 V R : 22 Capacity : 1450 W Year : 2000	1			
37	SKODA WD 200	01-Bay1-B-12	01-1155,	1	1	Panel AC:- Advance Voltage : 230 V R : 22 Capacity : 1450 W Year : 2000	1			
38	SKD - 50 B NC	01-Bay-2-C-12	01-2149,	5	5	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2004	1			
				1	1	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 1500 W Year : 2008	1			
39	SKODA WD - 160	01-Bay-2 B-8	01-1102	1	1	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 1450 k.cal Year : 2008	1			
40	Mitsubishi MAF 240 / 180 B	01-Bay-2 B-10	01-1625	2	2	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 6000 K Cal Year : 2004	1			
				1 X 2	2	Panel AC:- Rittal Voltage : 230 V R : 134a Capacity : 1850 W Year : 2008	2			
				1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 240 W Year : 2010	1			
41	SKODA CNC WD-200	01-Bay-2 B-11	01-1108	1	1	Panel AC:- warner finley Voltage : 230 V R : 22 Capacity : 1000 k.cal Year : 2007	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
42	SHODA WD-200	01-Bay-2 B-12	01-2125	1	1	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 1500 W Year : 2012	1			
43	WD 130-A TDS	01-Bay-2 C-3	01-1117	1	1	Panel AC:- Rittal Voltage : 240 V R : 134a Capacity : 3000 k.cal Year : 2007	1			
44	SK - 50 A -2 Blansko	01-Bay-2 C-8	01-1305	1.5	1.5	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 3500 k.cal Year : 2012	1			
45	DORRIES CNC Vertical Lathe	01-Bay-2 C-11	01-1657	5	5	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2004	1			
				2	2	Panel AC:- Advance . Voltage : 400 V R : 134a Capacity : 6000 k.cal Year : 2000	1			
46	5 Axis Room	01- Bay-3 C-6	01-*****	5	5	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2004	5			
				1	1	Air Drier :- Premier Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 01/09//2010	1			
47	Starrage -2	01- Bay-3 C-8	01-1295	5	5	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2004	1			
48	Starrage -1	01-Bay-3 C-9	01-1294	5	5	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2005	1			
49	Starrage -3	01-Bay-3 C-9	01-1452	5	5	Oil Chiller :- Chilton Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2004	1			
50	Batliboi	01-Bay-3-C-10	01-2118,	1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2009	1			
51	Batliboi	01-Bay-3-C-11	01-2114.	1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2009	1			
52	HELLER CNC	01-Bay-3 C-11	01-1293.	1	1	Panel AC:- Mitsubishi Voltage : 230 V R : 22 Capacity : 3000 k.cal Year : 1998	1			
				1	1	Pendent Cooler :- Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 1998	1			
53	BMC -3100 (BFW)	01-Bay-3 C-11	01-1521	1	1	Panel AC:- Warner Finlay Voltage : 230 V R : 22 Capacity : 1000 k.cal Year : 1988	1			
54	Batliboi	01-Bay-3 C12	01-2116.	1	1	Panel AC:- Batliboi Voltage : 230 V R : 134a Capacity : 2000 W Year : 1998	1			
55	Batliboi	01-Bay-3 C12	01-2121.	1	1	Panel AC:- Batliboi Voltage : 230 V R : 134a Capacity : 1500 k.cal Year : 1998	1			
56	Batliboi	01-Bay-3-C-12	01-2124.	1	1	Panel AC:- Batliboi Voltage : 230 V R : 134a Capacity : 1500 k.cal Year : 1998	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
57	Surface Grinding	01-Bay-3 D-10	01-1359.	5	5	Oil Chiller : - Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 1998	1			
58	LB drillingm/c	01-Bay-4 D 13	01-****	1	1	Panel AC:- Rittal Voltage : 230 V R : 22 Capacity : 600 W Year : 1998	1			
59	KARATS	01-Bay-4 E-7	01-1622.	2	2	Oil Chiller : - WARKIN BKW Voltage : 415 V R : 22 Capacity : 6000 K Cal Year : 1998	1			
				3	3	Panel AC:- Mclean Midwest. Voltage : 400 V R : 22,, Capacity : 9000 k.cal Year : 1996	1			
60	BP-130 CNC	01-Bay-4 E-3 Rotor Shop	01-2292	2 X 2	4	Oil Chiller : - Euro Cold X 2No's Voltage : 415 V R : 404a Capacity : 5700W Year : 2010	2			
				1.5 X 2	3	Panel AC : - Cosmote X 2 No's Voltage : 400 V R : 134a Capacity : 4KW Year : 2010	2			
				1	1	Pendent Cooler : - Cosmote Voltage : 230 V R : 134a Capacity : 0.33 KW Year : 2010	1			
				1	1	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 20 Cfm Year : 04/2010	1			
61	SUT 160 SKODA	01-Bay-4 E-5	01-2164.	5	5	Oil Chiller : - Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2000	1			
				1	1	Panel AC:- Rittal Voltage : 400 V R : 134a Capacity : 2000 k.cal Year : 2006	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 0.30 KW Year : 2010	1			
62	IMPELLER WELDING	01-Bay-4 E-5	01-*****	2.5	2.5	Air Drier : - ELGI Voltage : 400 Vac R : 407 Capacity : 126 Cfm Year : 04/2010	1			
63	Cincinnati Milacron	01-Bay-5 -F-4	01-1910.	1	1	Panel AC:- Advace Voltage : 230 V R : 22 Capacity : 1000 k.cal Year : 2008	1			
64	SB-CNC (HMT)	01-Bay-5- F-6	01-2209.	1	1	Panel AC:- chilton Voltage : 230V R : 134a Capacity : 3000 k.cal Year : 2000	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2009	1			
65	OKK CNC MCH8000	01-Bay-5 F-11	01-1623.	2	2	Oil Chiller : - Advance Voltage : 415 V R : 22 Capacity : 6000 K Cal Year : 2000	1			
				1	1	Panel AC:- Rittal Voltage : 230 V R : 22 Capacity : 3000 k.cal Year : 2000	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2000	1			
66	TDS	01-Bay-6 F-8	01-1307	1	1	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 1500 k.cal Year : 2002	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
67	VMS	01-Bay-6 G-3	01-1415	1	1	Panel AC:- Warner Voltage : 400 V R : 134a Capacity : 900 W Year : 2003	1			
68	HMT-HMC-630 CNC	01 Bay-6 G-7	01-*****	2 X 2	4	Oil Chiller : - Advance X 2 Voltage : 415 V R : 134 Capacity : 6000 K Cal Year : 2010	2			
				1	1	Panel AC:- Advance Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2006	1			
				1	1	Air Drier : - ELRO Voltage : 220 Vac R : 407 Capacity : 20 Cfm Year : 04/2010	1			
69	PAL COOPER VCE 1600/140	01-Bay-6 G-10	01-2177.	5	5	Oil Chiller : - Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 1998	1			
				1	1	Panel AC:- Advance Voltage : 400 V R : 134a Capacity : 4500 k.cal Year : 2008	1			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 280 W Year : 2000	1			
70	Kirloskar Dynacut 250CNC	01-Bay-6 G-12	01-2178.	1	1	Panel AC:- Advance Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2002	1			
71	LODI Grinding m/c	01- Bay-7 G-8	01-2272.	1.5	1.5	Panel AC:- Rittal Voltage : 400 V R : 134a Capacity : 4500 k.cal Year : 2010	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2010	1			
72	Max Hannover Muller-	01-Bay-7 G-10	01-2015.	1	1	Panel AC:- Advance Voltage : 240 V R : 134a Capacity : 1500 k.cal Year : 2008	1			
73	SB-CNC (HMT)	01-Bay-7 G-11	01-1390	1	1	Panel AC:- Advance Voltage : 240 V R : 134a Capacity : 2000 k.cal Year : 2008	1			
74	Manfort RNC-1002	01-Bay-7,G-12	01-1392.	3	3	Oil Chiller : - Rittal Voltage : 415 V R : 22 Capacity : 9000 K Cal Year : 2000	1			
			PAC-35	1	1	Panel AC:- Rittal. Voltage : 400 V R : 134,, Capacity : 3000 k.cal Year : 2000	1			
			PND-07	1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 270 W Year : 23/10/2009	1			
75	SKODA-WD 200	01.Bay-7-H-2	01-2008.	1	1	Panel AC:- Advance Voltage : 230 V R : 134a Capacity : 1500k.cal Year : 2008	1			
76	WHN-13.8 - CNC-I	01-Bay-7 H-4	01-2139.	1 X 2	2	Panel AC:- Rittal X 2 nos. Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2008	2			
77	WHN-13.8-CNC-II	01-Bay-7 H-5	01-2146.	1	1	Panel AC:- Rittal Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2009	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 315 W Year : 2009	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
78	WOTAN Rapid 3	01-Bay -7 H -5	01-2011.	5	5	Oil Chiller : - Advance Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2006	1			
				2	2	Panel AC:- Advance Voltage : 400 V R : 134a Capacity : 6000 k.cal Year : 2003	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2009	1			
				2	2	Air Drier : - ELGI Voltage : 220 Vac R : 407 Capacity : 64 Cfm Year : 2005	1			
79	OM 16 CNC	01-Bay-7 H-8	01-2113.	1	1	Panel AC:- Advance Voltage : 240 V R : 134a Capacity : 2000 W Year : 2007	1			
80	O M - 40 CNC	01- Bay-7,H-9	01-2213.	2	2	Oil Chiller : - Oilmatic Voltage : 415 V R : 134 Capacity : 6000 K Cal Year : 2006	1			
				1	1	Panel AC:- Apiste Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2004	1			
81	Praga - Mitsubishi	01-Bay 7-H-11	01-2126.	5	5	Oil Chiller : - Chilton Voltage : 415 V R : 22 Capacity : 15000 K Cal Year : 2008	1			
				1	1	Panel AC:- Rittal Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2003	1			
82	HMC 1000 (HMT)	01-Bay-7 H-12	01-2129.	5	5	Oil Chiller : - Advance Voltage : 415 V R : 134 Capacity : 15000 K Cal Year : 2002	1			
				1.5	1.5	Panel AC:- Advance Voltage : 400 V R : 134a Capacity : 4000 k.cal Year : 2008	1			
83	S I P - CNC	01- 5 Axis center	01-2197.	2 X 2	4	Oil Chiller : - Schime Kchi X 2No's Voltage : 415 V R : 22 Capacity : 5000 KW Year : 1994	2			
84	Strrage ZT 800	01- 5 Axis center	01-2174.	2	2	Oil Chiller : - Schimepre Voltage : 415 V R : 22 Capacity : 9000 K Cal Year : 1994	1			
				1 X 4	4	Panel AC : - Mclean Midwest 4nos Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 1994	4			
				1	1	Panel AC:- Rittal Voltage : 115 V R : 134a Capacity : 2000 k.cal Year : 1994	1			
				1	1	Air Drier : - GEM Voltage : 220 Vac R : 134 Capacity : 40 Cfm Year : 2005	1			
85	MGC - Creep 130 Grinding-I	01- Buckets & Nozzles	01-2220.	10	10	Oil Chiller : - HYFRA Voltage : 415 V R : 134 Capacity : 30000 K Cal Year : 2003	1			
				1	1	Panel AC:- Pfannenber Voltage : 230 V R : 134a Capacity : 3000 k.cal Year : 2003	1			
86	MGC - Creep 130 Grinding- II	01- Buckets & Nozzles	01-2221.	10	10	Oil Chiller : - Kelvin CE Voltage : 415 V R : 134 Capacity : 30000 K Cal Year : 2003	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
				1	1	Panel A/C:- Pfannenber Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2003	1			
				1	1	Air Drier : - GEM Voltage : 220 Vac R : 407 Capacity : 40 Cfm Year : 2003	1			
87	PRIME - TDS	01- Buckets & Nozzles	01-2222.	2	2	Oil Chiller : - Kelvin CE Voltage : 415 V R : 134 Capacity : 6000 K Cal Year : 2003	1			
				1	1	Panel AC:- Pfannenber Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2003	1			
88	3 D measurig m/c	01- Buckets & Nozzles		1	1	Air Drier : - SANPER Voltage : 220 Vac R : 134 Capacity : 40 Cfm Year : 2003	1			
89	BFW CNC Drilling Mch	02-Rotor Coil Shop	02-2041.	10	10	Water Chiller : - I Bag Voltage : 415 V R : 22 Capacity : 35 KW Year :	1			
				1	1	Panel AC : - Rittal Voltage : 230 V R : 134a Capacity : 1000 W Year :	1			
				2	2	Air Drier : - Air Solutions Voltage : 400 V R : 134 Capacity : 55 Cfm Year :	1			
90	JUARASTI	02-Bay.4-B-3	02-2032.	3	3	Oil Chiller : - Pfannenber Voltage : 415 V R : 404 Capacity : 9000 K Cal Year : 2006	1			
				1	1	Panel AC:- Himel S.A. Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2006	1			
				1	1	Air Drier : - GEM Voltage : 230 V R : 134a Capacity : 40 Cfm Year : 2006	1			
90	Geminis-Goruto CNC	02-Bay-4 D-4		1 X 2	2	Panel AC:- Rittal Voltage : 230 V R : 134a Capacity : 3000 k.cal Year : 2004	2			
91	MARIO CARNAGHI	02-Bay.4-C-2	02-2028.	2	2	Oil Chiller : - EATA Voltage : 415 V R : 407 Capacity : 5700 WI Year : 2004	1			
				1.5	1.5	Oil Chiller : - EATA Voltage : 415 V R : 134 Capacity : 3896 W Year : 2004	1			
				1	1	Panel AC:- Pavarini Voltage : 400 V R : 134a Capacity : 3000 k.cal Year : 2004	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 800 W Year : 2006	1			
				1	1	Air Drier : - GEM Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 2006	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
92	Heller Rotor slot milling M/C	02-Bay-3 C-4	02-1041	1	1	Panel AC :- Advance Voltage : 230 V R : 22 Capacity : 1500 W Year :	1			
				1	1	Panel AC:- Rittal Voltage : 230 V R : 134a Capacity : 3000 k.cal Year : 2008	1			
93	Skoda WD -160-I	02-Bay -3 D- 5		1	1	Panel AC :- Advance Voltage : 230 V R : 22 Capacity : 1000 W Year : 2012	1			
94	SUT - 160 CNC	02-Bay-3 D -7	02-1336	10	10	Oil Chiller :- Advance Voltage : 415 V R : 22 Capacity : 30000 K Cal Year : 2008	1			
				1	1	Panel AC :- Sun Beam Voltage : 230 V R : 134a Capacity : 2000 W Year : 2013	1			
				1	1	Pendent Cooler :- Sun Beam Voltage : 230 V R : 134a Capacity : 180 W Year : 2013	1			
95	Skoda WD-160 II	02- Bay-3 D-8	02-1048	1	1	Panel AC :- Advance Voltage : 230 V R : 22 Capacity : 1000 W Year : 2012	1			
96	PAMA - CNC	02- Bay-2B-2	02-2022.	15	15	Oil Chiller :- Kelvin Voltage : 415 V R : 22 Capacity : 46500 WI Year : 2008	1			
				1	1	Panel AC:- Himel SA Voltage : 240 V R : 134 Capacity : 3000 k.cal Year : 2002	1			
				1	1	Air Drier :- SANPAR Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 2006	1			
97	6 Axis Taping M/C	02-Bay - D -	02-2057.	1	1	Panel AC :- Rittal Voltage : 400 V R : 134a Capacity : 2000 W Year :	1			
				1	1	Air Drier :- Sanpar Voltage : 220 V R : 134 Capacity : 20 Cfm Year :	1			
98	Stollberg	Bay -2 B - 12		1	1	Panel AC :- Rittal Voltage : 400 V R : 134a Capacity : 2000 W Year :	1			
99	Tacchi CNC	Bay - D -		3.5	3.5	Oil Chiller :- EATA Voltage : 415 V R :134 Capacity : 11164 W Year : 2013	1			
				2	2	Oil Chiller :- EATA Voltage : 415 V R :134 Capacity : 5700 W Year : 2013	1			
				1 X 2	2	Panel A/C :- Rittal Voltage : 400 V R : 134a Capacity : 1580 W Year : 2013	2			
				1	1	Air Drier :- ELGI Voltage : 220 V R : 134 Capacity : 20 Cfm Year :	1			
100	Core Sloting M/C	02-Bay 6 G-2		1	1	Panel AC:- Advance Voltage : 240 V R : 22 Capacity : 3000 k.cal Year : 2000	1			
				1	1	Air Drier :- SANPAR Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 2000	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
101	BFW - Copper Bar Slotting M/C	02-Bay 6 G-2	02-2041.	1	1	Panel AC:- Rittal Voltage : 230 V R : 134a Capacity : 3000 k.cal Year : 2008	1			
				1	1	Air Drier : - IDFA6E Voltage : 220 V R : 134 Capacity : 20 Cfm Year : 2008	1			
102	Roter winding hall water chillers	Bay -2 B - 13		3 X 4	12	Water Chiller :-Advance X 4 nos. Voltage : 415 V R :134 Capacity : 9000 K cal Year : 2011	4			
103	Impregnation plant New	02-Cross -Bay		1	1	Panel A/C : - Rittal Voltage : 400 V R : 134a Capacity : 1675 W Year :	1			
104	SB - CNC 35	03-Bay-3 D-5		1	1	Panel AC:- Advance Voltage : 240 V R : 22 Capacity : 3000 k.cal Year : 2006	1			
105	STC - 25 - CNC	03-Bay-2 D-5	03-1433.	1	1	Panel AC:- Advance Voltage : 240 V R : 22 Capacity : 3000 k.cal Year : 2010	1			
106	FNC 600 S CNC	03-Bay-2 B-3	03-1422.	1	1	Panel AC:- Advance Voltage : 240 V R : 134 Capacity : 3000 k.cal Year : 2009	1			
107	FNC -2 600 S CNC	03-Bay-2 B-4	03-1428.	1	1	Panel AC:- Advance Voltage : 240 V R : 134 Capacity : 3000 k.cal Year : 2009	1			
108	H B M -CNC	03-Bay -2-E- 8	03-1481	1	1	Panel AC : - Rittal Voltage : 230V R : 134a Capacity : 1400 Watts Year :	1			
109	HighVacu Heat Trtmnt&Boring Furnance	03 -Bay-2 E-9	03-1002	1	1	Panel AC : - Sun Bream Voltage : 230V R : 134a Capacity : 1500 Watts Year :	1			
				7.5 X 2	15	Oil chiller : - Werner Finely x 2 nos. Voltage : 415 V R : 22 Capacity : - 22500 K.cal Year : 2012	2			
110	Mario Carnaghi	70-Bay-2 D-2	70-1199.	1.5	1.5	Oil Chiller : - EATA Voltage : 440 V R : 134 Capacity : 3896 W Year : 2008	1			
				2	2	Oil Chiller : - EATA Voltage : 440 V R : 134 Capacity : 5700 W Year : 2008	1			
				1	1	Panel A/C : - TEXA Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2008	1			
				1	1	Air Drier : - GEM Voltage : 230 V R : 134a Capacity : 20 Cfm Year : 2008	1			
111	SKS-12 CNC V.B	70 - Bay-2 C-3	70-1175.	3	3	Oil Chiller : - Sunbeam Voltage : 440 V R : 22 Capacity : 3000 K Cal Year : 2006	1			
				1	1	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2006	1			
				1	1	Pendent Cooler :Rittal Voltage : 440 V R : 134 Capacity : 800 W Year : 2006	1			
112	BR 6 - Batli boi	70 -Bay 2 D-3	70-1169	1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 1000 W Year : 2012	1			
113	WHN-13.8 (Tos)	70 -Bay 2 C-4	70-1178	1 X 2	2	Panel A/C : - Rittal Voltage : 230 V R : 134a Capacity : 1000 W Year : 2011	2			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
114	JUARASTI	70-Bay-2-.C-5	70-1200.	2	2	Oil Chiller : - DASSI Voltage : 440 V R : 134 Capacity : 6000 K Cal Year : 2006	1			
				1	1	Panel A/C : - Rittal Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2008	1			
				1	1	Air Drier : - GEM Voltage : 230 V R : 134a Capacity : 20 Cfm Year : 2008	1			
115	Staiiion 2004 CNC	70 -Bay 2 D-4	70-1192	1	1	Panel AC : - Chillton Voltage : 230 V R : 134a Capacity : 900 K.Cal Year : 2011	1			
116	FTM -1000 Turmille	70 - Bay-2 D-8	70-1290	1	1	Panel AC : - Rittal Voltage : 230 V R : 134a Capacity : 1500 W Year : 2012	1			
				1	1	Panel AC : - Zapp Cool Voltage : 230 V R : 22 Capacity : 1570 W Year : 2012	1			
				1	1	Air Drier : - CPX-20 Voltage : 220 Vac R : 407 Capaty : 20 Cfm Year : 2012	1			
117	SK - 12	70 - Bay-2 C-9	70-1170	1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 1000 W Year : 2012	1			
118	Tos Kurim FRF 250 - V/A6	Bay - 2 - C - 8	70-1223	1	1	Oil Chiller : - Advance Voltage : 415 V R : 134 Capacity : 6000 K Cal Year : 2011	1			
				1 X 2	2	Panel AC : - Rittal(2No,s) Voltage : 230 V R : 134a Capacity : 1230 W Year :	2			
				1	1	Pendent Cooler : - MKS Clima Voltage : 230 V R : 134a Capacity : 240 W Year :	1			
				1	1	Air Drier : - Prememier Voltage : 220 Vac R : 134a Capacity : 10 Cfm Year :	1			
119	SB CNC-HMT - 60	70 - Bay-2 D-9	70-1216.	2	2	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 6000 K Cal Year : 2006	1			
				2	2	Oil Chiller : - Chilton Voltage : 440 V R : 22 Capacity : 6000 K Cal Year : 2008	1			
				1	1	Panel AC : - Advance Voltage : 230 V R : 134 Capacity : 1500 W Year : 2008	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 2500 W Year : 2008	1			
120	Proteck PL-850U	70-Bay-2 D-11		1.5	1.5	Oil Chiller : - warner Finlay Voltage : 440 V R : 407 Capacity : 4500 K Cal Year : 2007	1			
				1	1	Panel AC : - SunBean Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2007	1			
				1	1	Pendent Cooler :Advance Voltage : 440 V R : 134 Capacity : 800 W Year : 2006	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
121	HMT - L - 45 CNC	70 -Bay-2D-12	70-1206	1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : - 3000 K.cal Year : 2008	1			
122	HMT - L - 45 CNC (New)	70-Bay-2 D-13	70-1198	1	1	Pane AC : Werner Finely Voltage : 230 V R : 134a Capacity : 400 K.cal Year :	1			
				1	1	Pendent Cooler : Werner Finely Voltage : 230 V R : 134a Capacity : 400 K.cal Year :	1			
121	HMT - L - 45 CNC (old)	70 -Bay-2C-12	70-1165	1.5	1.5	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : - 4500 K.cal Year : 2008	1			
123	Prime Automat Welding Mch. CNC	70-Bay-2 C-15	70-1207	1	1	Panel AC : - SCAN Voltage : 230 V R : 134a Capacity : 3000 K.cal. Year : 2008	1			
124	QIER -China -2008	51-Bay-4 E-11		3	3	Oil Chiller : - Haber Pasion Voltage : 440 V R : 134 Capacity : 9000 K Cal Year : 2008	1			
				2	2	Oil Chiller : - Haber Pasion Voltage : 440 V R : 134 Capacity : 6000 K Cal Year : 2008	1			
				1 X 2	2	Panel A/C : - Haber Pasion X2nos Voltage : 440 V R : 134 Capacity : 3000 K Cal Year : 2008	2			
				1	1	Pendent Cooler :HYPER Pasion Voltage : 440 V R : 134 Capacity : 800 W Year : 2008	1			
				1	1	Air Drier : - ELGI Voltage : 230 V R : 134a Capacity : 20 Cfm Year :	1			
125	Jomax 265 Gantry Drill Mch 51-6167	51-Bay-4	51-6167	2.5 X 2	5	Oil Chiller : - Kelvin X 2 No,s Voltage : 440 V R : 134a Capacity : 6700 W Year :	2			
				1 X 2	2	Panel AC : - Kelvin X 2 No,s Voltage : 230 V R : 134a Capacity : 2890 W Year :	2			
				1	1	Pendent Cooler : - Kelvin Voltage : 230 V R : 134a Capacity : 250 W Year :	1			
				1	1	Air Drier : - Trident Voltage : 230 V R : 134a Capacity : 40 Cfm Year :	1			
126	Wailer CNC Travel Drill.m/c	51-Bay-4	PAC-25	1	1	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 1230 W Year : 2007	1			
				1	1	Pendent Cooler : - Advance Voltage : 230 V R : 134a Capacity : 250 W Year :	1			
				1	1	Air Drier : - Parker-Hiross Voltage : 230 V R : 134a Capacity : 40 Cfm Year :	1			
127	SKODA drilling m/c WD-200	51-Bay-3 - B1		1	1	Panel AC : - Advance Voltage : 230 V R : 134 Capacity : 1500 K Cal Year : 2009	2			
				1	1	Panel AC : - Advance Voltage : 230 V R : 134 Capacity : 1000 K Cal Year : 2009	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
128	MAF-240/180E	51-Bay-3 - B1	51-6068	10	10	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 30000 W Year :	1			
				1 X 3	3	Panel AC : - Rittal X 3 No's Voltage : 230 V R : 134a Capacity : 850 W Year : 2010	3			
129	WHN - 13 CNC	51-Bay-2 C-12	51-6126.	3	3	Oil Chiller : - Schimpke Hann Voltage : 440 V R : 22 Capacity : 9000 K Cal Year : 2008	1			
				1	1	Panel AC : - Cosmotelun beam Voltage : 230 V R : 134a Capacity : 0.2 kw Year : 1998	1			
130	BMK -130 CNC HMY WMW	Bay - -	51	2.5	2.5	Oil Chiller : - Rittal Voltage : 440 V R : 134a Capacity : 7900 W Year :	1			
				1 X 3	3	Panel AC : - Rittal X 3 No's Voltage : 230 V R : 134a Capacity : 2000 W Year : 2012	3			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 300 W Year :	1			
				1	1	Air Drier : - ELGI Voltage : 230 V R : 134a Capacity : 20 Cfm Year :	1			
131	Gloria-Italy CNC -	51-Bay-1 E-7		1 X 2	2	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2005	2			
				1	1	Pendent AC : - Rittal Voltage : 230 V R : 134 Capacity : 1000 K Cal Year : 2008	1			
				1	1	Air Drier : - ELGI Voltage : 230 V R : 407 Capacity : 20 Cfm Year : 2008	1			
132	REM CNC	51-Bay-1-B-7	51-	1	1	Panel AC : - Pennenberg Voltage : 230 V R : 134a Capacity : 2000 W Year : 2011	1			
				2	2	Oil Chiller : - Euro cold Voltage : 440 V R : 404 Capacity : 4700 W Year :	1			
				1	1	Pendent Cooler : - Cosmotec Voltage : 230 V R : 134a Capacity : 330 W Year :	1			
133	REM CNC	51-Bay-1-B-8	51-	1	1	Panel AC : - Pennenberg Voltage : 230 V R : 134a Capacity : 2000 W Year : 2011	1			
				2	2	Oil Chiller : - Euro cold Voltage : 440 V R : 404 Capacity : 4700 W Year :	1			
				1	1	Pendent Cooler : - Cosmotec Voltage : 230 V R : 134a Capacity : 330 W Year :	1			
134	NOMURA	51-Bay-2-C-11	51-6032	1	1	Panel AC : - Advance Voltage : 230 V R : 22 Capacity : 1500 W Year : 2010	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
135	HMT - L - 50 CNC	51-Bay-1-D-2	51-6005	1 X 2	2	Panel AC : - Freeztech X 2 No's Voltage : 230 V R : 134a Capacity : 2000 W Year : 2012	2			
136	Cooper Cvt-150.1-CNC	51-Bay-1 D-9	51-6001.	1	1	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 1030 W Year :	1			
137	Cooper Cvt-150.2-CNC	51-Bay-1 D-9	51-6002.	1	1	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 1030 W Year :	1			
138	OM - CNC Vertical lathe	51- Newbay-	51-6162	1.5	1.5	Oil Chiller : - Daikin Voltage : 200 V R : 410 Capacity : 5500 W Year :	1			
				1	1	Panel AC : - Npiste Iterirer\ Voltage : 230 V R : 134a Capacity : 2000 W Year : 2012	1			
				1	1	Air Drier : - ELGI Voltage : 230 V R : 134a Capacity : 64 Cfm Year :	1			
139	HMT HDL - 70, CNC / 4000	51-Bay-1 D-4		2	2	Oil Chiller : - Warner Finlay Voltage : 440 V R : 22 Capacity : 6000 K Cal Year : 2009	1			
				1	1	Panel AC : - Warner finnIN Japan make Voltage : 230 V R : 134 Capacity : 3000 K Cal	1			
				1	1	Air Drier : - ELGI Voltage : 230 V R : 407 Capacity : 20 Cfm Year : 2008	1			
140	VDF	51-Bay-2 C-9		1	1	Panel AC : - Rittal Voltage : 230 V R : 134 Capacity : 3000 K Cal Year : 2002	1			
141	Sub Zero treatment chm	51-Bay 4 assb		3	3	Panel AC : - Comet Enverons Voltage : 440 V R : 404 Capacity : 9000 K Cal Year : 2006	1			
142	HMT - L - 45 CNC 06-1109	06-Bay-1 E- 4	06-1109	1	1	Panel AC : - Sunbeam Voltage : 230 V R : 134a Capacity : 1500 W Year : 2012	1			
				1	1	Pendent AC : - Advance Voltage : 230 V R : 22 Capacity : 1000 K Cal Year : 2002	1			
143	Grisheim CNC Flame cutting Mch. 06-6077	06-Bay-1 D- 6	06-60 77	1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 450 W Year : 2011	1			
144	Messer FCM 06-2035	Bay - 1 E- 7	06-2035.	1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 1500 W Year : 2011	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 2000 W Year : 2011	1			
145	Muller Opaden 06-2081	Bay - 2 C- 11	6-2181.	1	1	Panel AC : - Rittal Voltage : 230 V R : 134a Capacity : 1230 W Year : 2011	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refrigerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
146	KOLB - 1 - HTB III	06-Bay-4 D-13		10	10	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 30000 K Cal Year : 2009	1			
				1 X 7	7	Panel AC : - Rittal X 7 nos. Voltage : 230 V R : 134a Capacity : 1500 W Year : 2008	7			
147	KOLB - 2 - HTB III	06-Bay-2 D-13		10	10	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 30000 K Cal Year : 2009	1			
				1.5	1.5	Panel AC : - Advance Voltage : 230 V R : 22 Capacity : 4500 W Year : 2008	1			
				1 X 3	3	Panel A/C : - Advance Voltage : 230 V R : 22 Capacity : 1500 W Year : 2008	3			
				1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 1000 W Year : 2008	1			
				1	1	Pendent AC : - Advance Voltage : 230 V R : 134a Capacity : 250 W Year : 2008	1			
148	UNISIG CNC 06-2188	Bay - 2 C- 2	06-2188.	10	10	Oil Chiller : - Advance Voltage : 440 V R : 407 Capacity : 37500 K Cal Year : 2012	1			
				5	5	Oil Chiller : - Advance Voltage : 440 V R : 407 Capacity : 17500 K Cal Year : 2012	1			
				1	1	Panel AC : - Rittal Voltage : 440 V R : 134a Capacity : 1625 W Year : 2012	1			
				1	1	Panel AC : - Rittal Voltage : 440 V R : 134a Capacity : 1060 W Year : 2012	1			
				1	1	Pendent Cooler : - Rittal Voltage : 230 V R : 134a Capacity : 300 W Year : 2012	1			
149	MAUT drilling m/c	06-Bay -5 E-3		5	5	Oil Chiller : - Chilton Voltage : 440 V R : 22 Capacity : 15000 K Cal Year : 2007	1			
				1.5 X 2	3	Panel AC : - Kelvin X 2 nos. Voltage : 230 V R : 134a Capacity : 5000 W Year : 2007	2			
150	Homa lathe m/c	06-Bay 1 B-10		5	5	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 15000 K Cal Year : 2008	1			
151	Batliboi B-R-6-1	06-Bay-1 B-11		1	1	Panel AC : - Advance Voltage : 230 V R : 134a Capacity : 1000 W Year : 2012	1			
152	Batliboi B-R-6-2	06-Bay-1 B-12		1	1	Panel AC : - Advancel Voltage : 230 V R : 134a Capacity : 1000 W Year : 2012	1			

S.No.	Block & Machine Name	Location Bay, Column	Asst no.	Capacity each in TR	Total TR	Machine Make, Year, Refregerant, Voltage	No. of units	Unit Rate/TR/Year	Total Cost/Year	Total Cost / 2 Years
153	Wadkin Drilling Mch	Bay - 1 A- 12	06-1244	3	3	Oil Chiller : - Advance Voltage : 440 V R : 22 Capacity : 9000 K Cal Year : 2012	1			
				1	1	Panel A/C : - Advance Voltage : 230 V R : 134a Capacity : 1625 W Year : 2012	1			
154	ESAB Narrow GapWeld.Mch. 2140	06 Bay - 1 B- 7		1	1	Panel A/C : - Rittal Voltage : 230 V R : 134a Capacity : 3000 W Year : 2012	1			
155	Suag FCM Plasma Cutting	06 -Bay-1 E-9		5	5	Water Chiller : - HYPER THERUM Voltage : 440 V R : 22 Capacity : 15000 K Cal Year : 1986	1			
				1	1	Pendent Cooler :HYPER THERUM Voltage : 440 V R : 134 Capacity : 800 W Year : 2006	1			
				1	1	Panel AC : - Warner Finley Voltage : 230 V R : 134a Capacity : 1000 W Year : 2011	1			
156	Hausler 4 roll bending m/c	06 Bay6-		10	10	Oil Chiller : - Maruthi Voltage : 440 V R : 22 Capacity : 30000 K Cal Year : 2010	1			
157	Hausler 2 roll bending m/c	06 Bay6-		2	2	Oil Chiller : - Maruthi Voltage : 440 V R : 22 Capacity : 6000 K Cal Year : 2010	1			
					773		429			
Total TR					2737	Total No. of Equipments	552			
Amount In Rs.										
Service Tax										
Total Cost										
The contractor shall indicate whether Service Tax Included or Excluded If Excluded mention it in price bid Taxes If not mentioned will be treated as Including Taxes										