



NATIONAL CFC CONSUMPTION PHASE-OUT PLAN FOR THE REFRIGERATION SERVICE SECTOR
A project of the Government of India in collaboration with the Government of Germany, the Government of Switzerland, UNEP, UNDP and UNIDO

List of Tools and Equipment with sources and indicative prices in Rupees

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INFRAS

On behalf of the Government of Switzerland

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<p>Godrej & Boyce Mfg Co. Ltd. (Appliance Division) L.B.S.Marg, HO Service, Plant 11, Pirojsha Nagar Mumbai - 400 079, India Phone : + 91- 22 - 5596 6603/6623 Fax : + 91- 22 - 5596 6066 Email: saj@godrej.com Webpage: www.godrejsmartcare.com</p>	
<p>www.nccopp.info</p>	

List of Tools and Equipment with sources and indicative prices in Rupees.

Standard Tools

No.	Items	Supplier	Manufacturer	Model no.	Indicative Price / unit	Unit
1	Knife	Local	Bimal		10.00	item
2	Set of allen keys	Local	Unbrako		125.00	set of 9
3	Adjustable spanner 6"	Local	Taparia	1170-6	77.00	item
4	Adjustable spanner 4"	Local	Taparia	1169-4	89.00	item
5	spanner set (open end - Metric)	Local	Eastman		332.00	set of 12
6	Key spanners for gas cylinder valves	Local			100.00	item
7	Electrician insulated crimping tool	Local	Multitec	8	90.00	item
8	Multigrip pliers	Local	Taparia	1225	180.00	item
9	Hand Pliers	Local	Taparia	1621-8	120.00	item
10	Pointed pliers (Long nose)	Local	Taparia	1430	130.00	item
11	Cutting pliers	Local	Taparia	1121	132.00	item
12	Ratchet Wrench (3/16" - 1/4")	Local	Proex	RW-123	260.00	item
13	Handle for assorted bits	Local	Taparia	1715 1PC	398.00	item
14	box of assorted bits	Local	Taparia	S 23M	1,167.00	set of 15
15	Screw driver ordinary slot	Local	Taparia	1014	278.00	set of 4
16	Screw driver, cross head	Local	Taparia	1014	100.00	set of 2
17	Flate fine file with handle, 150 mm	Local	JK		102.00	item
18	Round fine file with handle, 150 mm	Local	JK		110.00	item
19	Small saw with blades	Local			15.00	item
20	Small saw blades	Local			30.00	Set of 20
21	Ordinary Hammer	Local		0.5 Kg.	124.00	item
22	Plastic hammer	Local			40.00	item
23	Tool Box	Local			280.00	item
24	Lock and key	Local			45.00	Pair
	Total appx.			Rs.	4,334	set

Measuring Instruments

No.	Items	Supplier	Manufacturer	Model no.	Indicative Price / unit	Unit
1	Clamp on multimeter with case	Carrier	Proex	YF-800	1,740.00	item
2	Electronic thermometer with sensor (-25 to 50C)	Carrier	Proex	DT 101S -40 : 70C	537.00	item
3	Measuring tape (3 m)	Local	Freeman		45.00	item
4	Electric Tester (814)	Local	Taparia	1014	500	item
	Total appx.			Rs.	2,322	set

Refrigeration tools

No.	Items	Supplier	Manufacturer	Model no.	Indicative Price / unit	Unit
1	Pinch off pliers	Carrier	Proex	PH-303	190.00	item
2a	Piercing Valve	Refco/Hindustan	Refco	EZ-36- I/5 or HP 41	1000.00	item
2b	Piercing Valve	Carrier	Gitta	GT 431	190.00	item
2c	Piercing valve	Rohini Refrigeration	Robinair	14749	420.00	item
3	Tool for Deburring	Carrier	Gitta	GT 208	235.00	item
4	Tube cutter	Carrier	Proex	TC - 18	100.00	item
5	Capillary Tube cutter	Carrier	Proex		242.00	item
6	Flaring set (Block and Yoke) (Tubing tool kit)	Carrier	Proex	FT - 275K	1,192.00	Set of 8
7	Swaging Tools (Punches)	Carrier	Gitta	GT - 193	190.00	Set of 5
8	Tube bender	Carrier	Proex		360.00	item
9	Scrader valve remover (Valve die)	Any Auto shop			5.00	item
10a	Ball Valves	Hindustan	Local		300.00	item
10b	Ball Valves	Refco/Hindustan	Refco		1000.00	item
11	Protection goggles	Local	Escorts	3001	50.00	item
	Total appx. (with selection 2c, 10a)			Rs.	3,284	set

Special Equipment

No.	Items	Supplier	Manufacturer	Model no.	Indicative Price / unit	Unit
1a	Evacuation and Charging Unit - with weighing scale	ACC			33,000.00	item
1b	Evacuation and Charging Unit - Tubular with weighing scale	Dew Point Appl.	Dew Point Appl.		21,000.00	item
1c	Evacuation and Charging Unit - Tubular with weighing scale	Frigtools	Frigtools		18,000.00	item
1d	Evacuation and Charging Unit - Tubular with charging still	Frigtools	Frigtools		16,000.00	item
1e	Evacuation and Charging Unit - Tubular with charging still	Dew Point Appl.	Dew Point Appl.		15,000.00	item
1f	Evacuation and Charging Unit - Tubular with charging still & weighing scale (5 Kg)	Frigtools	Frigtools		20,500.00	item
1g	Evacuation and Charging Unit - tubular with charging still & weighing scale (5 Kg)	Dew Point Appl.	Dew Point Appl.		23,500.00	item
2a	Recovery & Recycling Unit (indigenous - single pass)	Dew Point Appl.	Dew Point Appl.		16,000.00	item
2b	Recovery & Recycling Unit	ACC	ACC		52,000.00	item
3	Vacuum Pump (2 stage)	All good RAC service equipment shops, e.g. Hindustan	Vacuum Techniques, Indian High Vacuum Pumps	Warky, others	7,000.00	item
4a	Brazing torch set and hoses for oxy acetylene brazing	local	ESAB		3,852.00	set
4b	Brazing torch for LPG	PKL	PKL	PowerJet	3,350.00	set
4c	Brazing torch for LPG	PKL	PKL	Spitfire	2,788.00	set
5	Regulators - Nitrogen	Local	Esab	Dura 10	3,328.00	item
6	Thermocouple vacuum gauges	Leepra Instruments	Leepra Instruments	TCVM-4	6,500.00	set
	Total appx. (item 1f, 2a, 4b,5 only)				43,178	set

Special Components for Retrofitting CFC appliance to HC

No.	Items	Supplier	Manufacturer	Model no.	Indicative Price / unit	Unit
1	Sealed door switch	ESBEE	ESBEE		7.25	item
2	Sealed lamp holder	Kalki	Kalki		10.60	item
3	Sealed OLP for HC compressor	Annapurna	Annapurna		32.00	item
4	PTCR for HC compressor	Annapurna	Annapurna		35.00	item
5	Sealed thermostat	Annapurna	Annapurna		95.00	item
	Total appx.			Rs.	179	set

List of Addresses for Sourcing:

Company	Address	City	Contact No.:
ACC Engineers	4772, Near School No. 1 Brahminpuri	Miraj 416 410	P: 02164 – 228 536
Annapurna Electricals	D-41, Phase - V, Jeedimetla	Hyderabad 500 055	P: 040 – 2309 5371, 2309 7637 F: 040 - 309 6492, 309 4638
Carrier Aircon Ltd.	Vinaya Bhavaya Complex, 159, C.S.T. Road, Kalina, Santa Cruz – East	Mumbai 400 098	P: 022 - 2652 8089, 2652 8989 F: 022 – 654 1757
Dew Point Appliances	808 10th A main, 1st stage Near Shanti Sagar Hotel Indira Nagar	Bangalore 560 038	P: 080 - 529-9325
ESBEE	Esbee Industrial Conbines J-159, M.I.D.C. Bhosari	Pune 411 026	P: 020 – 712 1991 /2/3 F: 020 - 712 1994
Frigtools	1, Ansari Road Darya Ganj	New Delhi 110 002	P: 011 - 2327 4014, F: 011 - 2327 1712
Hindustan Refrigeration Store	2, 4&5, Netaji Subhash Marg Darya Ganj	New Delhi 110 002	P: 011 - 2327 1898 2327 7725 /35 2328 8884 /86 F: 011 - 2327-1152
Indian High Vacuum Pumps	Mr. Suresh Babu No: B- 28, 1st Stage Peenya Industrial Estate	Bangalore 560 058	P:080-3721107 F: 080-3720258
Kalki Industries	Kalki Estate, I.B. Patel Road Gorgaon (East)	Mumbai 400063	P: 022 – 2873 4551 F: 022 – 2873 3274
PKL Ltd.	2nd flr, Arujun Towers, Gokhale Road, Naupada, Thane-(w)	Mumbai 400 602	P: 022 – 25331997, 25442139 F: 022 - 2533 4350
Refco	Refco Manufacturing Industriestrasse 11	CH 6285 Hitzkirch (Switzerland)	P: ++41 (0) 41- 919 72 82 F: ++41 (0) 41- 919 72 83
Rohini Refrigeration	Mr. AJAY 58-Aziz Mulk, 2 nd Street, Thousand Lights	Chennai 600 006.	P: 044 – 2829 0442
Vacuum Techniques	Mr. Niranjana No.433, 4th Main Road, 4th Phase, Peenya Indl. Area	Bangalore 560 058	P:080- 8395684, 8360606 F:080-3360639
Leepra Instruments	Mr. P. G. Sonkar E 1 Manjulika, Sector-2 Plot No 28, Vashi	Navi Mumbai 400703	P: 022-27823493

Remarks:

- Princes are indicative for bulk orders - excluding tax and transport – subject to change
- Taparia tools may be procured from any local supplier / dealer
- Sealed components are t be procured from local dealers since small numbers are not supplied by the manufacturers.