

Section 7. Technical Specifications

Procurement of HVAC Hand Tools, Equipment And Consumables For HVAC System Maintenance Of 450 MW CCPP (North & South), Of APSCL.

SL No.	Item Name	Type & Size	Unit	Quantity
1	VACUUM PUMP FOR REFRIGERANT	Stage: Single, Free Air delivery: Min. 7 CFM, Vane: Rotary, Power: Min. 1/2 HP, Refrigerant: R-22,R-410a,R-407a/ c. Motor: single phase, 220-240 VAC, 50Hz, 1700-2000rpm. Country of origin: G7/ Malayasia/Thailand/ Korea	pcs	01
2	VACUUM CLEANER	Supply: 220 VAC, 50 HZ Suction Power: 250-500 W, Brand: Philips/ Hitachi/Equivalent. Country of origin: G7/Malayasia/Thailand/ korea	pcs	01
3	REFRIGERANT RECOVERY UNIT WITH STORAGE CYLINDER	Power: 220V, 50HZ, Min.0.5 HP, 1/4" SAE Connection, Recovery refrigerant: FC, HCFC, HFC including R410A. Compressor type: Oil less air cooled Recovery rate: 0.23 kg/ min-6.22 kg/min Cylinder volume: Minimum 12 litre Cylinder test pressure: 50 Bar Cylinder service pressure: 35 bar. Country of origin: G7/ Singapore/ Taiwan.	pc	01
4	ANGLE GRINDING MACHINE	Angle grinding machine, Model – W9-100, Brand : Metabo, Origin: Germany	pc	01
5	CLIP-ON METER	AC current: upto 400.0 A AC/DC voltage: upto 600.0 V Resistance: 400.0 Ω Max wire diameter: 30mm (600MCM) Accuracy: $\pm 1\%$ Brand: FLUKE/HIOKI. Origin: G7/CHINA	pc	01
6	DIGITAL MULTIMETER	DC:400mV TO 600V $\pm(0.5\%+4)$ AC: 400mV TO 600V $\pm(0.8\%+6)$ DC Current 400uA TO 10A $\pm(1.0\%+10)$ AC Current 400uA to 10A $\pm(1.5\%+10)$ Resistance: 400 Ω TO 40M Ω $\pm(0.8\%+4)$ Capacitance 4nF TO 100uF $\pm (3.5\%+8)$ Frequency 1Hz TO 30MHz (0.5%+10) Brand: FLUKE/ HIOKI. Origin: G7/CHINA	pcs	01
7	REFRIGERANT LEAK DETECTOR (ELECTRONIC)	Detecting refrigerant: CFC, HCFC, HFC including R410A. Country of origin: G7/Singapore/ Malayasia.	pc	01
8	SOCKET SET 10 MM-32 MM 1/2" DRIVE with Ratchet	Socket set 1/2" drive, 24 Pcs,10-32mm, Brand: Sparrow/Elora	set	02

9	SOCKET SET 1.5 MM-10 MM 1/2" DRIVE	Socket Wrench Set 1/2" Drive Metric 38Pcs, Brand: Sparrow/ Elora	set	02
10	ROTARY HAMMER DRILL MACHINE	Rotary hammer Dril Machine (For concrete & Metal application), Brand: Metabo/ Makita, Power Input: 700-800 watt No load Speed: 0-1430 rpm. Origin: G7	pcs	01
11	DRILL BIT (S.S)	Size: 1.5-10mm, 15Pcs set, Brand: Makita/ Metabo/B&D. Origin: G7	set	02
12	DRILL BITS	Size: 15,18,20,22,25,28,32,38,45,50 mm (10 pieces) taper shank HSS bit with 04 Pieces taper shank sleeve (1-2,2-3,3-4,4-5). M2 grade. As per sample. Origin: G7/Taiwan/ Korea/China.	set	01
13	AIR HOSE PIPE (SIZE 1")	DN:1", Nylon thread reinforced, pressure: 9Bar, As per sample	meter	100
14	WATER HOSE PIPE (1")	DN:1", Wire reinforced, pressure: 5Bar, As per sample	meter	100
15	WATER HOSE PIPE (3/4")	DN:3/4", Wire reinforced, pressure: 5Bar, As per sample	meter	100
16	AC GAS CHARGING HOSE PIPE	As per sample, Origin:G7/Taiwan/Malayasia/Korea	pcs	04
17	AC GAS CHARGING MANIFOLD DOUBLE	As per sample, Origin: G7/Taiwan/Malayasia/Korea	pcs	02
18	AC GAS PRESSURE GAUGE (0-250 PSI)	As per sample, For R22, R407C & 410a. Origin: G7/Taiwan/Malayasia/Korea	pcs	03
19	AC GAS PRESSURE GAUGE (0-600 PSI)	As per sample, For R22, R407C & 410a Origin: G7/Taiwan/Malayasia/korea	pcs	06
20	COMBINATIONAL WRENCH SET 10-32 MM	Ring & Open combined, Brand: Sparrow/Elora, Origin: G7/Taiwan	set	02
21	TAP AND DIE SET	41 Pieces Tap & Die set made of HSS, size M3-M18, Country of origin: G7	set	01
22	GASKET CUTTER	As per sample	pcs	02
23	AC Compressor, 5 Ton	Volt: 440V, 3-Phase, As per sample. Origin: G7/ Malayasia/ Thailand/Taiwan	pcs	05
24	AC Compressor, 3 ton	Volt: 440V, 3-Phase, As per sample. Origin: G7/Malayasia/ Thailand/Taiwan	pcs	03
25	AC Compressor, 2 Ton	Volt: 220V, Single Phase, As per sample. Origin: G7/Malayasia/Thailand/Taiwan	pcs	05
26	AC Compressor, 1 Ton	Volt: 220V, Single Phase, As per sample. Origin: G7/Malayasia/Thailand/Taiwan	pcs	03

27	Outdoor unit fan motor (DC)	Volt: 280 V DC(EAU57945702), kW:, As per sample	pcs	01
28	Outdoor unit fan motor	Volt: 415 V,1.25 kW:, As per sample	pc	01
29	Outdoor unit fan motor	Volt: 220 V,0.56 kW,076KW:, As per sample	pcs	04
30	R-410a Refrigerant Gas	WEIGHT: 25LB, As per sample, Origin: G7/ Malayasia/Thailand/Taiwan	Pcs	12
31	R-22 Refrigerant Gas	WEIGHT: 30LB, As per sample, Origin:G7/ Malayasia/Thailand/Taiwan	pcs	08
32	R-407c Refrigerant Gas	WEIGHT: 25LB, As per sample, Origin: G7/ Malayasia/Thailand/Taiwan	pcs	08
33	Room temperature display	As per sample, Origin:G7	pcs	04
34	Digital weight scale upto 40 Kg	As per sample, Origin: G7/China	pcs	02
35	Copper pipe flare tools & Expander set	As per sample, Origin: G7/Taiwan/ China	set	02
36	waste cotton	As per sample	kg	50
37	A/C Pipe Insulation Tape	As per sample	pcs	100
38	Aluminium Ladder 12 step	Platform Ladder, 12-step, Origin: Malayasia/ Taiwan	pc	02
39	Aluminium Ladder 9 step	Platform Ladder, 9-step (7 feet), Origin: Malayasia/ Taiwan	pc	02
40	Leather hand gloves	As per sample	pair	50
41	Portable gas canister	As per sample	pc	36
42	GRIP VICE	As per sample, Origin:G7	pcs	02