

Airports Authority of India
Swami Vivekananda Airport, Raipur
COMPARATIVE STATEMENT

1) Name of work: - ARMO 2022-24 of E & M Installation at S.V. Airport, Raipur. SH: Annual Operation and routine maintenance contract for 3 X 300 TR Air-conditioning Plant including ancillary installations like AHU, Cooling tower etc. & Comprehensive Maintenance contract of, Tower and Cassette ACs, split type air-conditioners, water coolers & RO water purifier, AHUs, UVGI and AOP Cell System etc.

2) Tender ID - 2022_AAI_109555

S. N.	Item Description	Qty	Unit	Estimated/Justified cost		1/9		2/9		3/9		4/9		5/9		6/9		7/6		8/9		9/9	
						M/s Shinryo Suvidha Engineers India Pvt. Ltd., Kolkata		M/s Supertech Engineers, New Delhi		M/s Comfort Zone, New Delhi		M/s CIS Global Infratech Pvt. Ltd., New Delhi		M/s Anoop Refrigeration, Lucknow		M/s V Save Electronics Pvt. Ltd., Noida		M/s Lotus Air Tech Engineering Pvt. Ltd., Chennai		M/s M K Enterprises, Nagpur		M/s Snowmex Engineers Ltd., New Delhi	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	17	18	17	18	17	18
1	Operation and daily routine maintenance of HVAC system of 3 nos. X 300TR capacity in two shift per day (16 Hrs.) including Sundays & holidays by engaging of manpower as mentioned in the tender terms & conditions. System comprising of chillers cooling towers, all pumps, Terminal building AHU's, LT Panels, Control Panels, VFD's etc. including monitoring, recording of various parameters of HVAC system as per detailed specifications, terms and conditions of agreement as required.	24	Months	3,95,677.00	94,96,248.00	2,49,674.00	59,92,176.00	3,73,000.00	89,52,000.00	4,13,984.00	99,35,616.00	3,81,820.00	91,63,680.00	3,60,029.00	86,40,696.00	3,75,000.00	90,00,000.00	3,72,910.00	89,49,840.00	3,30,000.00	79,20,000.00	1,90,078.00	45,61,872.00
2	Operation of complete HVAC system on hourly basis for covering of additional watch hours between 22:00 Hrs to 06:00 Hrs on all days including Sundays & Holidays as per the instruction of Engineer - In - Charge by engaging the following manpower: Supervisor/ Highly skilled-01 no. Operator cum Technician (Skill)-01 no Helper(Un-Skilled)-02 nos	300	Hrs.	758.00	2,27,400.00	795.00	2,38,500.00	100.00	30,000.00	850.00	2,55,000.00	330.00	99,000.00	100.00	30,000.00	560.00	1,68,000.00	430.00	1,29,000.00	650.00	1,95,000.00	895.00	2,68,500.00
3	Job contract for comprehensive Maintenance of central HVAC System comprising of the following main components. The job includes attending to complaints, repairs/rectifications, supply & replacement of any required spares/accessories/parts consumables, rewinding works, periodic inspections, Schedule/ preventive/breakdown maintenance as per tender terms & conditions for the period of one year as required. (Excluding comprehensive maintenance contract for 3 X 300 Tr. Chillers) Air Handling Unit of different capacity including control panels /instrumentation & all other accessories of following capacity - 33 Nos. Cooling Towers complete - 3 Nos. Primary Chilled Water motorpump sets (15 HP) - 4 Nos. Secondary Chilled Water motorpump sets (40 HP) - 3 Nos. Condenser motorpump sets(30 HP) - 4 Nos. Makeup water motorpump set (3 HP) & starter panel and associated accessories-1 set VFD Drive for secondary motorpump sets-3 Nos. 2 kVA UPS (Numeric make) with Battery Bank-01 set Electrical Panel for HVAC system (All the incoming & outgoing cables are covered in the scope of work only for maintenance & fault finding. Replacement of defective cables is not covered in the scope of item)																						
(a)	First Year	12	Months	81,367.00	9,76,404.00	65,975.00	7,91,700.00	1,25,000.00	15,00,000.00	25,000.00	3,00,000.00	2,80,000.00	33,60,000.00	8,000.00	96,000.00	37,500.00	4,50,000.00	60,000.00	7,20,000.00	38,000.00	4,56,000.00	1,10,000.00	13,20,000.00
(b)	Second Year	12	Months	89,503.00	10,74,036.00	65,975.00	7,91,700.00	1,35,000.00	16,20,000.00	25,000.00	3,00,000.00	3,00,000.00	36,00,000.00	12,000.00	1,44,000.00	37,500.00	4,50,000.00	63,000.00	7,56,000.00	40,000.00	4,80,000.00	1,12,000.00	13,44,000.00
4	Annual comprehensive maintenance of single phase 1.5/2.0 TR (including star rated) split type air conditioners of different makes including stabilizer (wherever installed) of following capacity installed at different locations including providing all necessary consumables / spares & replacement of faulty compressor and carrying out complete preventive/ breakdown maintenance as required (Non Inverter Type AC- 17 Nos. + Inverter Type AC-77 Nos.)											-	-		-		-		-		-		-
(a)	First Year	94	Each	1,899.00	1,78,506.00	2,800.00	2,63,200.00	1,650.00	1,55,100.00	2,000.00	1,88,000.00	2,800.00	2,63,200.00	900.00	84,600.00	2,600.00	2,44,400.00	2,200.00	2,06,800.00	1,800.00	1,69,200.00	2,100.00	1,97,400.00
(b)	Second Year	94	Each	2,089.00	1,96,366.00	2,800.00	2,63,200.00	1,800.00	1,69,200.00	2,000.00	1,88,000.00	3,000.00	2,82,000.00	900.00	84,600.00	2,600.00	2,44,400.00	2,300.00	2,16,200.00	1,800.00	1,69,200.00	2,150.00	2,02,100.00
5	Annual comprehensive maintenance of water cooler so fall makes (i/c bubbler type 6 nos. Oasis make & 16 nos. Usha make normal water cooler) and upto 150/150 liters. cooling/storing capacity at different locations including providing all necessary consumables and spares including replacement of faulty compressor with original make as required.											-	-		-		-		-		-		-
(a)	First Year	22	Each	2,107.00	46,354.00	1,827.00	40,194.00	1,200.00	26,400.00	2,000.00	44,000.00	4,000.00	88,000.00	690.00	15,180.00	2,200.00	48,400.00	1,000.00	22,000.00	1,500.00	33,000.00	1,500.00	33,000.00
(b)	Second Year	22	Each	2,318.00	50,996.00	1,827.00	40,194.00	1,300.00	28,600.00	2,000.00	44,000.00	4,500.00	99,000.00	690.00	15,180.00	2,200.00	48,400.00	1,200.00	26,400.00	1,500.00	33,000.00	1,650.00	36,300.00
6	Annual comprehensive maintenance of industrial water purifiers(RO) of capacity 25 LPH at different locations including providing all necessary consumables and spares including replacement of Membrane(Once in a year), Carbon Filter (twice in a year) and sediment filter(every quarter) attending monthly servicing/overhauling of system, attending breakdown call as & when required, complete etc as required.											-	-		-		-		-		-		-
(a)	First Year	17	Each	1,106.00	18,802.00	3,654.00	62,118.00	1,300.00	22,100.00	3,000.00	51,000.00	10,000.00	1,70,000.00	990.00	16,830.00	2,000.00	34,000.00	1,500.00	25,500.00	5,000.00	85,000.00	1,600.00	27,200.00
(b)	Second Year	17	Each	1,217.00	20,689.00	3,654.00	62,118.00	1,400.00	23,800.00	3,000.00	51,000.00	10,000.00	1,70,000.00	990.00	16,830.00	2,000.00	34,000.00	1,600.00	27,200.00	5,000.00	85,000.00	1,800.00	30,600.00

S. N.	Item Description	Qty	Unit	Estimated/Justified cost		1/9		2/9		3/9		4/9		5/9		6/9		7/6		8/9		9/9	
						M/s Shinyo Suvridha Engineers India Pvt. Ltd., Kolkata		M/s Supertech Engineers, New Delhi		M/s Comfort Zone, New Delhi		M/s CIS Global Infratech Pvt. Ltd., New Delhi		M/s Anoop Refrigeration, Lucknow		M/s V Save Electronics Pvt. Ltd., Noida		M/s Lotus Air Tech Engineering Pvt. Ltd., Chennai		M/s M K Enterprises, Nagpur		M/s Snowmex Engineers Ltd., New Delhi	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	17	18	17	18	17	18
7	Annual comprehensive maintenance of Industrial water purifiers at different locations including providing all necessary consumables and spares including replacement of ,Carbon Filter (twice in a year), sediment filter(every quarter), UV Lamp etc. attending monthly servicing/overhauling of system, attending breakdown call as & when required, complete etc as required. (Aqua Guard- 03 nos.)										-		-		-		-		-		-		-
(a)	First Year	3	Each	8,585.00	25,755.00	3,654.00	10,962.00	1,300.00	3,900.00	4,000.00	12,000.00	20,000.00	60,000.00	2,790.00	8,370.00	7,000.00	21,000.00	2,000.00	6,000.00	5,000.00	15,000.00	3,200.00	9,600.00
(b)	Second Year	3	Each	9,090.00	27,270.00	3,654.00	10,962.00	1,400.00	4,200.00	4,000.00	12,000.00	20,000.00	60,000.00	2,790.00	8,370.00	7,000.00	21,000.00	2,100.00	6,300.00	5,000.00	15,000.00	3,400.00	10,200.00
8	Annual comprehensive maintenance of domestic water purifiers at different locations including providing all necessary consumables and spares including replacement of ,Carbon Filter (twice in a year), sediment filter(every quarter), UV Lamp etc. attending monthly servicing/overhauling of system, attending breakdown call as & when required, complete etc as required. (Kent RO-01 no., Havells-01 no.)										-		-		-		-		-		-		-
(a)	First Year	2	Each	8,585.00	17,170.00	3,654.00	7,308.00	1,300.00	2,600.00	4,000.00	8,000.00	5,000.00	10,000.00	2,790.00	5,580.00	7,000.00	14,000.00	2,000.00	4,000.00	5,000.00	10,000.00	3,400.00	6,800.00
(b)	Second Year	2	Each	9,090.00	18,180.00	3,654.00	7,308.00	1,400.00	2,800.00	4,000.00	8,000.00	5,000.00	10,000.00	2,790.00	5,580.00	7,000.00	14,000.00	2,100.00	4,200.00	5,000.00	10,000.00	3,500.00	7,000.00
9	Annual comprehensive maintenance of three phases 3.0 Tr Tower Type split type airconditioners of different makes following capacity installed at different locations including providing of all necessary consumables and spares & replacement of faulty compressor and carrying out preventive & breakdown maintenance as required.										-		-		-		-		-		-		-
(a)	First Year	5	Each	5,197.00	25,985.00	3,900.00	19,500.00	2,800.00	14,000.00	10,000.00	50,000.00	4,500.00	22,500.00	1,920.00	9,600.00	4,000.00	20,000.00	6,200.00	31,000.00	4,500.00	22,500.00	2,800.00	14,000.00
(b)	Second Year	5	Each	5,718.00	28,590.00	3,900.00	19,500.00	3,000.00	15,000.00	10,000.00	50,000.00	5,000.00	25,000.00	1,920.00	9,600.00	4,000.00	20,000.00	6,600.00	33,000.00	4,500.00	22,500.00	3,000.00	15,000.00
10	Annual comprehensive maintenance of three phases 4.0 Tr Tower Type split type airconditioners of different makes following capacity installed at different locations including providing of all necessary consumables and spares & replacement of faulty compressor and carrying out preventive & breakdown maintenance as required.										-		-		-		-		-		-		-
(a)	First Year	12	Each	6,402.00	76,824.00	4,415.00	52,980.00	4,500.00	54,000.00	12,000.00	1,44,000.00	5,000.00	60,000.00	2,520.00	30,240.00	5,000.00	60,000.00	5,000.00	60,000.00	4,000.00	48,000.00	3,000.00	36,000.00
(b)	Second Year	12	Each	7,043.00	84,516.00	4,415.00	52,980.00	5,000.00	60,000.00	12,000.00	1,44,000.00	5,500.00	66,000.00	2,520.00	30,240.00	5,000.00	60,000.00	5,250.00	63,000.00	4,000.00	48,000.00	3,100.00	37,200.00
11	Annual comprehensive maintenance of three phases 1.5/2.0 Tr Cassette type inverter airconditioners of different makes following capacity installed at different locations including providing of all necessary consumables and spares & replacement of faulty compressor and carrying out preventive & breakdown maintenance as required. (to be taken up from Sept-2022)										-		-		-		-		-		-		-
(a)	First Year	5	Each	3,120.00	15,600.00	3,654.00	18,270.00	3,500.00	17,500.00	6,000.00	30,000.00	3,900.00	19,500.00	1,050.00	5,250.00	3,000.00	15,000.00	2,600.00	13,000.00	4,000.00	20,000.00	1,600.00	8,000.00
(b)	Second Year	5	Each	3,432.00	17,160.00	3,654.00	18,270.00	4,000.00	20,000.00	6,000.00	30,000.00	4,200.00	21,000.00	1,050.00	5,250.00	3,000.00	15,000.00	2,800.00	14,000.00	4,000.00	20,000.00	1,750.00	8,750.00
12	Annual comprehensive maintenance of three phases 4.0 Tr Cassette type inverter model airconditioners of different makes following capacity installed at different locations including providing of all necessary consumables and spares & replacement of faulty compressor and carrying out preventive & breakdown maintenance as required.										-		-		-		-		-		-		-
(a)	First Year	2	Each	3,458.00	6,916.00	5,786.00	11,572.00	15,000.00	30,000.00	18,000.00	36,000.00	8,000.00	16,000.00	2,400.00	4,800.00	5,000.00	10,000.00	5,200.00	10,400.00	5,000.00	10,000.00	3,000.00	6,000.00
(b)	Second Year	2	Each	3,804.00	7,608.00	5,786.00	11,572.00	17,000.00	34,000.00	18,000.00	36,000.00	9,000.00	18,000.00	2,400.00	4,800.00	5,000.00	10,000.00	5,500.00	11,000.00	5,000.00	10,000.00	3,100.00	6,200.00
13	Dismantling of Existing single phase/three phase Split /Floor mounted Air conditioner units (all type) complete of different rating from existing site. Before dismantling the full gas to be pump down properly and refilling of holes, plastering, finishing the walls making good the same including shifting the removed airconditioning unit up to new loaction / store room as required.										-		-		-		-		-		-		-
(a)	First Year	10	Each	721.00	7,210.00	610.00	6,100.00	7,500.00	75,000.00	1,500.00	15,000.00	2,500.00	25,000.00	1,200.00	12,000.00	500.00	5,000.00	2,086.00	20,860.00	400.00	4,000.00	1,500.00	15,000.00
(b)	Second Year	10	Each	793.00	7,930.00	610.00	6,100.00	7,500.00	75,000.00	1,500.00	15,000.00	2,500.00	25,000.00	1,200.00	12,000.00	500.00	5,000.00	2,000.00	20,000.00	400.00	4,000.00	1,600.00	16,000.00
14	Installation testing and commissioning of Split A.C/Tower A.C(all type) of various capacity up to 4 Tones etc. including connecting the outdoor & indoor units using refrigerant pipeswith insulation (existing or new one as applicable), wiring ,leak testing of entire system, top up of refrigerant as required, minor civil works as per requirement.										-		-		-		-		-		-		-
(a)	Fist Year	10	Each	2,157.00	21,570.00	1,220.00	12,200.00	1,000.00	10,000.00	3,500.00	35,000.00	3,000.00	30,000.00	1,800.00	18,000.00	1,000.00	10,000.00	3,000.00	30,000.00	1,800.00	18,000.00	2,500.00	25,000.00
(b)	Second Year	10	Each	2,374.00	23,740.00	1,220.00	12,200.00	1,000.00	10,000.00	3,500.00	35,000.00	3,000.00	30,000.00	1,800.00	18,000.00	1,000.00	10,000.00	3,000.00	30,000.00	1,800.00	18,000.00	3,000.00	30,000.00
15	Annual comprehensive maintenance of Air-cooler which includes replacement of khus once in the year, including rewinding of air cooler motor, pump, pipes as required etc. Scrubbing of Air Cooler body with emry /sand paper and double coat painting including applying red oxide etc. as required and quarterly cleaning of cooler sumps but excluding watering.										-		-		-		-		-		-		-
(a)	First Year	88	Each	1,515.00	1,33,320.00	975.00	85,800.00	650.00	57,200.00	700.00	61,600.00	2,000.00	1,76,000.00	420.00	36,960.00	1,000.00	88,000.00	900.00	79,200.00	950.00	83,600.00	1,500.00	1,32,000.00
(b)	Second Year	88	Each	1,515.00	1,33,320.00	975.00	85,800.00	650.00	57,200.00	700.00	61,600.00	2,000.00	1,76,000.00	420.00	36,960.00	1,000.00	88,000.00	950.00	83,600.00	900.00	79,200.00	1,600.00	1,40,800.00

S. N.	Item Description	Qty	Unit	Estimated/Justified cost		1/9		2/9		3/9		4/9		5/9		6/9		7/6		8/9		9/9																	
						M/s Shinryo Suvidha Engineers India Pvt. Ltd., Kolkata		M/s Supertech Engineers, New Delhi		M/s Comfort Zone, New Delhi		M/s CIS Global Infratech Pvt. Ltd., New Delhi		M/s Anoop Refrigeration, Lucknow		M/s V Save Electronics Pvt. Ltd., Noida		M/s Lotus Air Tech Engineering Pvt. Ltd., Chennai		M/s M K Enterprises, Nagpur		M/s Snowmex Engineers Ltd., New Delhi																	
				RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	RATE (Rs.)	AMOUNT (Rs.)														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	17	18	17	18	17	18																
16	Annual Service contract for 4 x16.5 Tr capacity of Air-cooled package Air-conditioning unit of Blue star make, operated on 3 phase, 415V, 50 Hz AC which includes only sundry maintenance and weekly testing for serviceability as per terms & conditions of contract & operation of plant as & when required basis but excluding supply of spares for the period of one year.										-		-		-		-		-		-		-																
(a)	First Year	12	Months	4,725.00	56,700.00	11,000.00	1,32,000.00	4,000.00	48,000.00	16,500.00	1,98,000.00	16,000.00	1,92,000.00	3,300.00	39,600.00	2,750.00	33,000.00	8,000.00	96,000.00	3,215.50	38,586.00	1,200.00	14,400.00																
(b)	Second Year	12	Months	5,050.00	60,600.00	11,000.00	1,32,000.00	4,000.00	48,000.00	16,500.00	1,98,000.00	16,000.00	1,92,000.00	3,300.00	39,600.00	2,750.00	33,000.00	8,500.00	1,02,000.00	5,000.00	60,000.00	1,400.00	16,800.00																
17	Job contract for comprehensive Maintenance of complete Ultra Violet Germicidal Irradiation (UVGI) system and Ultra Fresh Advanced Oxidation Plasma (AOP) Cell system technology installed in all 33 AHUs and Packaged AC. (UVGI Lamp 108W-35 Nos., 83W-26 Nos. and associated Driver-33 Nos.) (AOP Cell 26W-82 Nos. and associated Driver-37 Nos.)										-		-		-		-		-		-		-																
(a)	First Year	12	Months	10,605.00	1,27,260.00	12,300.00	1,47,600.00	4,000.00	48,000.00	8,000.00	96,000.00	10,000.00	1,20,000.00	4,100.00	49,200.00	4,166.00	49,992.00	6,000.00	72,000.00	10,000.00	1,20,000.00	45,000.00	5,40,000.00																
(b)	Second Year	12	Months	12,120.00	1,45,440.00	12,300.00	1,47,600.00	4,000.00	48,000.00	8,000.00	96,000.00	10,000.00	1,20,000.00	4,100.00	49,200.00	4,166.00	49,992.00	6,500.00	78,000.00	10,000.00	1,20,000.00	47,000.00	5,64,000.00																
				Say Rs.	1,33,54,465.00					1,32,61,600.00				1,87,68,880.00				95,83,116.00				1,13,73,584.00				1,19,46,500.00				1,04,21,786.00				96,79,722.00					
				Below		-28.46		Below		-0.70		Below		-4.69		Above		40.54		Below		-28.24		Below		-14.83		Below		-10.54		Below		-21.96		Below		-27.52	
				Lowest bidder		L1				L8				L9				L2				L5				L6				L4				L3					

Certified that I have personally conducted check of the tenders duly computed checked and satisfied myself, that the checking work has been propely done and the rates quoted by the contractor i.e. totals are carried over correctly in the comparative statement.

Signature Not Verified

Digitally signed by PRAMOD SONI
Date: 2022.06.22 11:18:35 IST
Location: eProcurement System for Central PSUs

