

**Tender No. D-3A/AMC/2021-
2022/02**

Dated : 01.04.2021

NIT No. 2021_DoHR_599880

Tender documents

**Maintenance contract for
HVAC, AC's of ICMR-NICED–I,
ICMR-NICED- II & JICA
Building and
ICMR-NICED Virus Lab.**

At

**ICMR-National Institute of Cholera
and Enteric Diseases
(ICMR-NICED)**

ICMR-National Institute of Cholera & Enteric Diseases
P-33, C.I.T. Road, Scheme – XM, Beliaghata,
Kolkata – 700 010

Dated: 01/04/2021

Sealed Tender / Quotations are invited for Maintenance Contract of HVAC, AC's of ICMR-NICED – I, ICMR-NICED- II & JICA Building and ICMR-NICED Virus Lab at ICMR-NICED, Kolkata.

Sealed Tender, complete in all respect, duly signed with stamped of firm on each page including the tender should be dropped in the tender box, placed before the Despatch section (Dr. S.C. Pal Building) on 1st Floor on any working day from Monday to Friday within 10.30 a.m. to 5.30 p.m. Tender will be opened by Tender Opening Committee and in presence of tenderers or authorised representative.

Important Instruction

- i) The cost of Tender Fee of **Rs. 500/-** (Rupees Five hundred only) [Non-Refundable] in the form of Demand Draft /Pay Order in favour of Director, NICED, Kolkata from any Nationalised Bank should be submitted along with the Technical Bid.
- ii) The validity of tender will be one year from the date of approval of the Tender.
- iii) The tenders must attach self-attested photocopies of latest and valid GST registration certificate and proof of filing Income Tax returns last 3 years and onwards. Failure to submit the same Tender will be invalid automatically. However Govt. of India / State Govt. Department and Public Sector Undertakings (Central/State) are exempted from submitting GST & Income Tax clearance certificate.
- iv) Self-attested PAN card should be submitted.
- v) Tender document duly signed with rubber seal of the firms in token of acceptance by the tenderer of all terms & conditions.
- vi) Before submitting quotation party may contact Admn. Officer or Mr. Kanu Dey, Sr. Technician I and Maintenance Division Incharge or Mr. Sudipta Dhani, Skilled Engineer, ICMR-NICED for further information.
- vii) Prior permission is required to be taken from ICMR-NICED Office before site inspection.

Cost of Tender Fee Rs. 500.00

(non-refundable)

Tender Notice

ICMR-National Institute Of Cholera & Enteric Disease

P-33, C.I.T. Road, Scheme-XM, Beliaghata, Kolkata-700010.

Website- www.niced.org.in

Telephone No. : 033-2353-6479, 2370-4478/5533.

Fax no. : 033-2370-5066, 2363 2398.

Email: storeniced1@gmail.com

NIT. 2021_DoHR_599880

Sealed Tenders are invited to execute of the following maintenance work at ICMR-N.I.C.E.D., Kolkata

Sl. No.	Tender Code No.	Description	Estimated amount of scope of work (Rs.)	EMD (Rs.)	Last date of submission of bid upto 1.30 P.M)	Date of opening (3.00 P.M)
1.	No.D-3A/AMC/2021-22/02 (NIT No. 2021_DoHR_599880)	Maintenance contract for HVAC, AC's of ICMR-NICED – I, ICMR-NICED- II & JICA Building and ICMR-NICED Virus Lab.	20,00,000.-	4,00,000.	22.04.2021	22.04.2021

ICMR-National Institute Of Cholera and Enteric Diseases

P-33, C.I.T. Road, Scheme-XM, Beliaghata, Kolkata-700010.

Telephone No.: 033-2370-1176/5533

Fax no. : 033-2370 5066, 2363 2398.

Email: storeniced1@gmail.com

No. D-3A/AMC/2021-2022/02

Dated : 01/04/2021

Expression of Interest (EOI)

Sealed Two Bid system (Separately Technical Bid and Price bids) tenders are invited from eligible contractors working with Govt. of India/ Govt. of West Bengal/Autonomous bodies of Govt. of India. Vendors must have vast knowledge and expertise in operation and non-comprehensive Maintenance Contract for HVAC, Electrical, Sanitary, Plumbing, Water Treatment Plant of JICA Building, NICED-I & II Building, Beliaghata, Kolkata.S0

Name of Work: Annual maintenance contract for JICA and NICED – I and II Building, HVAC, AC's, and Dr. B. C. Deb Auditorium AC.

INDEX

Sl. No.	Description	Page
1	Introduction	6
2	Type and Nature of Work	7
3	Calendar Event	8
4	Submission of EOI	9
5	General Terms & Condition	10
6	Role of Contactor	11

INTRODUCTION

National Institute of Cholera & Enteric Diseases (NICED), Kolkata is a premiere Institute of ICMR, an Autonomous body funded by under Ministry of health & family welfare, Govt. of India and engaged for significant research work on Diarrhoeal diseases and others infectious diseases. NICED is also involved Collaborative scientific research work with various national and international organizations.

TYPE AND NATURE WORK

1. Operation & Maintenance of All HVAC & AHU, all window and split type Air Condition Machine, Cold room sytem-5 no's, Hot Room 1 no's, Supply & Exhaust system (please consult with the enclosed list of inventory) at JICA Building, NICED 1 & NICED 2 building.
2. Vendor need to maintain 52 weeks Utility PPM Schedule and need to maintain both Hard copy & soft copy of reports, History card and need to provide wherever required.
3. Workmanship to be followed by Proper Safety precaution & using of proper PPE, LO-TO System, & application of best engineering practices.
4. All type of Tools & tackle is part of Vendors scope only.
5. All necessary log books, Uniform, softcopy, History cards & Service reports, Stationary, computer system need to Maintain by Vendor side only.
6. Vendor need to ensure proper servicing of every Installed Utility Equipment related to HVAC System on time to time.
7. Vendor should able to Submit Rectification cost on immediate basis for each breakdown case /Supply of spares on proper rate and should even ready to execute the rectification work subject to Approval & Proper order from NICED, irrespective of any minimum order-value of Spares/Jobs.
8. Service provider need to Provide/Suggest all Periodical Equipment Testing & Validation & corrective action related practices as per regular Norms with brief discussion with NICED on extra & actual cost.
9. Any item throughout the facility related to Engineering scope related to HVAC System required technical support as part of the contract & Operation-Maintenance.
10. On call Service of Refrigerant based equipment like Refrigerator etc.
10. List of HVAC Had enclosed with Annexure (May be differed \pm 2-5% based on renovation, replacement, New addition etc.)
11. List of Attachment for reference of Tentative Machine details

- i) **ANEXURE1- NICED-1 Building's (Within Campus of ICMR-NICED) AC Details**
- ii) **ANEXURE1- NICED-II Building's (Within Campus of ICMR-NICED) AC Details**
- iii) **ANEXURE1- JICA Building's (Within Campus of ICMR-NICED) AC Details**

N.B. : For maintaining the work mentioned above minimum 7 nos. of staff or More as decided by Service Provider (Excluding AC Technician) should be deployed in distributed manner for maintaining **round the clock duty** & One dedicated SPOC (Single point of Contact) to be present on Site for Supervision & Office communication. These staff should be as per the following categories.

- i) For **Electrician**: Workmanship certificate holder from govt. body.
- ii) AC **Mechanic** for HVAC work: Any A.C. workmanship certificate from recognized / reputed training institute like ITI or previous working experience.
- iii) **Plumber**: Plumbing certificate from any municipal authority or any recognised body.

◆ **Before submitting the quotation parties are requested to inspect actual site and contact Mr. Kanu Dey, Sr. Technician I and Maintenance Division Incharge or Mr. Sudipta Dhani, Skilled Engineer, ICMR-NICED for detailed job specification at the time of pre-bid conference.**

CALENDER EVENT

Pre Bid Conference	13.04.2021
Last Date of Submission	22.04.2021
Place of Submission of EOI Documents	ICMR-NICED
Date of opening of Technical Bid	22.04.2021
Date of Opening of Financial Bid	Published in ICMR-NICED website and Or Notified to the qualified vendor
Place of Opening of EOI Documents	ICMR-NICED
Address	P-33, CIT Road, Scheme XM, Kolkata – 700010
Telephone No.	033-2370-5533, 2370-4478

SUBMISSION OF EOI

Total Documents Content in Two Envelope .

Envelope 1 Contain : 2% of estimated cost of Rs. 20 lakh as Earnest Money in the form of Bank Draft on any Nationalized Bank. Technical Bid documents, Notice Inviting EOI, Instruction for bidders, Terms & Condition, Obligation of Employer, Declaration of Contactor, Credential – 80% of estimated cost of Maintenance 20 lakh value in a single work order or 2 Nos. work order value of 10 lakh each of same type of Govt. Research Organization of National repute. Copy of License to be produced for contractor and works men. Electrical Supervisor License, ESI & EPF Registration Certificate, VAT Registration Certificate & CST, Bank Draft / Bankers Cheque No. with Date to be mentioned including the name of the Nationalized Bank, Last 3 years Income Tax & Service Tax Clearance Certificate, Professional Tax certificate, current bank solvency certificate, Agency must have vast knowledge and expertise in the similar maintenance job.

Envelope 2 Contain : Financial Bid Documents.

Envelope 3 Contain: Containing envelope 1 & 2 with superscripted with the Details address including the name of the work, tender no., address to Director-in-Charge, National Institute of Cholera & Enteric Diseases, P-33, C.I.T. Road, Scheme –XM, Beliaghata, Kolkata 700 010.

EMD in favour of The Director, National Institute of Cholera and Enteric Diseases.

GENERAL TERMS & CONDITIONS

- 1) Soft Copy in the form the CD for Technical & Price Bid Separately along with the hard copy.
- 2) The tender documents should be typed. Any cutting / overwriting may be signed by the tenderer otherwise the rates in r/o that particular item may not be considered.
- 3) Each and every page of tender must be numbered and signed by the tenderer along with the seal of the firm.
- 4) Covering letter should clearly indicate the list of enclosures.
- 5) EMD is liable to be forfeited if the tenderer withdraws the tender or impairs or derogates the bid in any respect.
- 6) EMD shall be released unsuccessful bidder after completion of tender process, subject to compliance to all other terms & condition of Tender.
- 7) **THE RATES QUOTED WILL BE TAKEN AS FIRM AND FINAL.**
- 8) **Penalty Clause For Non-Compliance of Work Order :**
EMD of the firm will be forfeited and necessary action will be initiated.
- 9) Triplicate bills duly pre receipted on appropriate revenue stamp affixed to be submitted in the name of the Director in respective store.
- 10) The bill should be in printed form having printed bill number, GST/VAT/CST/TIN number as well as D.L.No. (which ever applicable).
- 11) All rejected stores shall be at risk of the supplier and must be removed immediately.
- 12) In case it is a computer-generated bill it must have the seal of the firm affixed on it.
- 13) **Payment:** Payment will be made after successful completion of work. Advance payment will be considered on necessary Bank Guarantee (100%).
- 14) **EXCLUSIVE RIGHT OF DIRECTOR:** The Director, ICMR-NICED Kolkata has the full and exclusive right to accept or reject any or all the tenders without assigning any reasons whatsoever. No enquires, verbal or written shall be entertained in respect of acceptance / rejection of the tender.

ROLE OF CONTACTOR

Work to be done in the Institute as per Institute norms. As this is a Govt. Institute (ICMR), so necessary precaution should be taken that no hazard or any untoward incident could be happened within the campus of the Institute . All work should be executed in consultation with the competent authority of ICMR-NICED. Any damage of Institute assets/property during the execution of the work within the campus will be liable to the contractor. A maximum of one (1) authorized representative of the contractor will be permitted to be present during the opening of the tender. The representatives should possess appropriate letter of authorization in the letterhead of the company and duly signed, clearly indicating the name of the representative and that he / she has been authorized to represent and sign on behalf of the company. He/She should also possess the official seal of the company for signing necessary document as and when required.

Canvassing (directly / indirectly) for the tender is strictly prohibited and will be liable to rejection of the bid.

DISTRIBUTION BOARD LIST																
LEGEND	PANEL NAME AND CONNECTION DIAGRAM	CIRCUIT NO.	TYPE OF PANEL	BRANCH BREAKER	MC	LOAD CAPACITY (kW)	LOAD NAME	REMARKS	PANEL NAME AND CONNECTION DIAGRAM	CIRCUIT NO.	TYPE OF PANEL	BRANCH BREAKER	MC	LOAD CAPACITY (kW)	LOAD NAME	REMARKS
1. SEQUENCE NUMBER																
2. TYPE OF PANEL																
3. LOGGING DISTRIBUTION																
4. POWER PANEL																
5. PRODUCTION EQUIPMENT																
6. WOLDED CASE																
7. MINATURE CIRCUIT BREAKER																
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DISTRIBUTION BOARD LIST												
LEGEND	PANEL NAME AND CONNECTION DIAGRAM	BRANCH BREAKER	AC	LOAD CAPACITY (kW)	LOAD NAME	REMARKS	PANEL NAME AND CONNECTION DIAGRAM	BRANCH BREAKER	AC	LOAD CAPACITY (kW)	LOAD NAME	REMARKS
1. SEQUENCE NUMBER BUILDING TYPE OF PANEL	2. PANEL NAME AND CONNECTION DIAGRAM	3. BRANCH BREAKER	4. AC	5. LOAD CAPACITY (kW)	6. LOAD NAME	7. REMARKS	8. PANEL NAME AND CONNECTION DIAGRAM	9. BRANCH BREAKER	10. AC	11. LOAD CAPACITY (kW)	12. LOAD NAME	13. REMARKS
1. LIGHTING DISTRIBUTION PANEL	AC 3PH/4W 415/240V	100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
2. MCCB + VOLTAGE DROPT BREAKER		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
3. MCCB + MINIMUM CIRCUIT BREAKER		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
4. EUB + EARTH LEAKAGE BREAKER		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
5. MC + MAGNETIC CONTACTOR		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
6. MC + REMOTE CONTROL		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
7. BRANCH CIRCUIT NUMBER		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
8. AC 1/3/230V LIGHTING		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
9. AC 1/3/230V RECEPTACLE		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
10. AC 1/3/230V EQUIPMENT		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
11. AC 1/3/230V LIGHTING		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
12. AC 1/3/230V RECEPTACLE		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
13. AC 1/3/230V EQUIPMENT		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
14. AC 1/3/230V EXT AND ENG LIGHTING		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
15. AC 3/4/500V BRANCH CIRCUIT		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
16. AC 3/4/500V + 1/3/230V MOTOR POWER		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
17. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
18. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
19. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
20. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
21. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
22. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
23. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
24. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
25. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
26. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
27. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
28. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
29. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
30. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
31. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
32. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
33. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
34. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
35. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
36. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
37. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
38. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
39. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
40. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
41. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
42. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
43. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
44. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
45. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
46. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
47. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
48. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
49. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
50. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
51. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
52. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
53. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
54. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
55. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
56. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
57. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
58. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
59. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
60. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
61. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
62. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
63. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
64. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
65. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
66. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
67. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
68. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
69. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
70. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
71. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
72. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
73. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
74. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
75. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
76. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
77. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
78. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
79. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
80. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
81. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
82. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
83. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
84. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
85. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
86. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
87. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
88. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
89. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
90. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
91. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
92. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
93. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
94. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
95. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
96. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
97. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
98. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
99. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	
100. AC 1/3/230V		100	1.00	1.00	1.00		1.00	100	1.00	1.00	1.00	



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CHECKED		
DATE		

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POWER CONTROL PANEL BOARD LIST														
PANEL NAME AND CONNECTION DIAGRAM	BRANCH BREAKER	LOAD CAPACITY (KW)	LOAD NAME	CONNECTION	ROUTE OF POWER CABLE	ROUTE OF ALUMINUM CABLE	ROUTE OF POWER CABLE	ROUTE OF ALUMINUM CABLE	ROUTE OF POWER CABLE	ROUTE OF ALUMINUM CABLE	ROUTE OF POWER CABLE	ROUTE OF ALUMINUM CABLE	ROUTE OF POWER CABLE	ROUTE OF ALUMINUM CABLE
NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
W-C01-1	AC 3P4W 400V/200V													
W-C01-2	AC 3P4W 400V/200V													
W-C01-3	AC 3P4W 400V/200V													
W-C01-4	AC 3P4W 400V/200V													
W-C01-5	AC 3P4W 400V/200V													
W-C01-6	AC 3P4W 400V/200V													
W-C01-7	AC 3P4W 400V/200V													
W-C01-8	AC 3P4W 400V/200V													
W-C01-9	AC 3P4W 400V/200V													
W-C01-10	AC 3P4W 400V/200V													
W-C01-11	AC 3P4W 400V/200V													
W-C01-12	AC 3P4W 400V/200V													
W-C01-13	AC 3P4W 400V/200V													
W-C01-14	AC 3P4W 400V/200V													
W-C01-15	AC 3P4W 400V/200V													
W-C01-16	AC 3P4W 400V/200V													
W-C01-17	AC 3P4W 400V/200V													
W-C01-18	AC 3P4W 400V/200V													
W-C01-19	AC 3P4W 400V/200V													
W-C01-20	AC 3P4W 400V/200V													
W-C01-21	AC 3P4W 400V/200V													
W-C01-22	AC 3P4W 400V/200V													
W-C01-23	AC 3P4W 400V/200V													
W-C01-24	AC 3P4W 400V/200V													
W-C01-25	AC 3P4W 400V/200V													
W-C01-26	AC 3P4W 400V/200V													
W-C01-27	AC 3P4W 400V/200V													
W-C01-28	AC 3P4W 400V/200V													
W-C01-29	AC 3P4W 400V/200V													
W-C01-30	AC 3P4W 400V/200V													
W-C01-31	AC 3P4W 400V/200V													
W-C01-32	AC 3P4W 400V/200V													
W-C01-33	AC 3P4W 400V/200V													
W-C01-34	AC 3P4W 400V/200V													
W-C01-35	AC 3P4W 400V/200V													
W-C01-36	AC 3P4W 400V/200V													
W-C01-37	AC 3P4W 400V/200V													
W-C01-38	AC 3P4W 400V/200V													
W-C01-39	AC 3P4W 400V/200V													
W-C01-40	AC 3P4W 400V/200V													
W-C01-41	AC 3P4W 400V/200V													
W-C01-42	AC 3P4W 400V/200V													
W-C01-43	AC 3P4W 400V/200V													
W-C01-44	AC 3P4W 400V/200V													
W-C01-45	AC 3P4W 400V/200V													
W-C01-46	AC 3P4W 400V/200V													
W-C01-47	AC 3P4W 400V/200V													
W-C01-48	AC 3P4W 400V/200V													
W-C01-49	AC 3P4W 400V/200V													
W-C01-50	AC 3P4W 400V/200V													
W-C01-51	AC 3P4W 400V/200V													
W-C01-52	AC 3P4W 400V/200V													
W-C01-53	AC 3P4W 400V/200V													
W-C01-54	AC 3P4W 400V/200V													
W-C01-55	AC 3P4W 400V/200V													
W-C01-56	AC 3P4W 400V/200V													
W-C01-57	AC 3P4W 400V/200V													
W-C01-58	AC 3P4W 400V/200V													
W-C01-59	AC 3P4W 400V/200V													
W-C01-60	AC 3P4W 400V/200V													
W-C01-61	AC 3P4W 400V/200V													
W-C01-62	AC 3P4W 400V/200V													
W-C01-63	AC 3P4W 400V/200V													
W-C01-64	AC 3P4W 400V/200V													
W-C01-65	AC 3P4W 400V/200V													
W-C01-66	AC 3P4W 400V/200V													
W-C01-67	AC 3P4W 400V/200V													
W-C01-68	AC 3P4W 400V/200V													
W-C01-69	AC 3P4W 400V/200V													
W-C01-70	AC 3P4W 400V/200V													
W-C01-71	AC 3P4W 400V/200V													
W-C01-72	AC 3P4W 400V/200V													
W-C01-73	AC 3P4W 400V/200V													
W-C01-74	AC 3P4W 400V/200V													
W-C01-75	AC 3P4W 400V/200V													
W-C01-76	AC 3P4W 400V/200V													
W-C01-77	AC 3P4W 400V/200V													
W-C01-78	AC 3P4W 400V/200V													
W-C01-79	AC 3P4W 400V/200V													
W-C01-80	AC 3P4W 400V/200V													
W-C01-81	AC 3P4W 400V/200V													
W-C01-82	AC 3P4W 400V/200V													
W-C01-83	AC 3P4W 400V/200V													
W-C01-84	AC 3P4W 400V/200V													
W-C01-85	AC 3P4W 400V/200V													
W-C01-86	AC 3P4W 400V/200V													
W-C01-87	AC 3P4W 400V/200V													
W-C01-88	AC 3P4W 400V/200V													
W-C01-89	AC 3P4W 400V/200V													
W-C01-90	AC 3P4W 400V/200V													
W-C01-91	AC 3P4W 400V/200V													
W-C01-92	AC 3P4W 400V/200V													
W-C01-93	AC 3P4W 400V/200V													
W-C01-94	AC 3P4W 400V/200V													
W-C01-95	AC 3P4W 400V/200V													
W-C01-96	AC 3P4W 400V/200V													
W-C01-97	AC 3P4W 400V/200V													
W-C01-98	AC 3P4W 400V/200V													
W-C01-99	AC 3P4W 400V/200V													
W-C01-100	AC 3P4W 400V/200V													

NOTE :
1) Regarding some devices or equipments with "●" marking, its alarm signal shall be indicated on the alarm-monitoring panel (by OTHER) collectively.

POWER CONTROL PANEL BOARD LIST														
PANEL NAME AND CONNECTION DIAGRAM	BRANCH BREAKER	LOAD CAPACITY (KW)	LOAD NAME	CONNECTION DIAGRAM	BRANCH BREAKER	LOAD CAPACITY (KW)	LOAD NAME	CONNECTION DIAGRAM	BRANCH BREAKER	LOAD CAPACITY (KW)	LOAD NAME	CONNECTION DIAGRAM	BRANCH BREAKER	LOAD CAPACITY (KW)
NO.	TYPE	AT	BT	TR	NO.	TYPE	AT	BT	TR	NO.	TYPE	AT	BT	TR
B-301														
B-302														
B-303														
B-304														
B-305														
B-306														
B-307														
B-308														
B-309														
B-310														
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B-381														
B-382														
B-383														
B-384														
B-385														
B-386														
B-387														

POWER CONTROL PANEL BOARD LIST																						
PANEL NAME AND CONNECTION DIAGRAM	CUT NO.	BRANCH BREAKER				LOAD CAPACITY (kW)				LOAD NAME	INDICATOR OF POWER CONTROL PANEL INDICATOR OF ALARM PANEL										Wiring Diagram No.	REMARKS
		TYPE	POLE	AF	AT	RS	ST	TR	3φ		STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT	STANDBY CUT		
M-02-1																						
Distribution (M-02-1)																						
AC 3Phase 400/240V	1	MCB	3P	100	100					1.00												
	2	MCB	3P	100	100					1.00												
	3	MCB	3P	100	100					1.00												
	4	MCB	3P	100	100					1.00												
	5	MCB	3P	100	100					1.00												
	6	MCB	3P	100	100					1.00												
	7	MCB	3P	100	100					1.00												
	8	MCB	3P	100	100					1.00												
	9	MCB	3P	100	100					1.00												
	10	MCB	3P	100	100					1.00												
Total (PAC) 40.0 kW																						
Total 40.0 kW																						
M-02-2																						
AC 3Phase 400/240V																						
AC 3Phase 400/240V	1	MCB	3P	100	100					1.00												
	2	MCB	3P	100	100					1.00												
	3	MCB	3P	100	100					1.00												
	4	MCB	3P	100	100					1.00												
	5	MCB	3P	100	100					1.00												
	6	MCB	3P	100	100					1.00												
	7	MCB	3P	100	100					1.00												
	8	MCB	3P	100	100					1.00												
	9	MCB	3P	100	100					1.00												
	10	MCB	3P	100	100					1.00												
Total (PAC) 40.0 kW																						
Total 40.0 kW																						

NOTE:
1) Regarding some devices or equipments with " " marking, its alarm signal will be indicated on the alarm-monitoring panel (JIS-0201) unit only.

NIHON SEKKEI, INC.
Planning, Design, Construction Management

DESIGN

CONSTRUCTION

MANAGEMENT

CONSULTING

RESEARCH

DEVELOPMENT

OTHER

DATE

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Diamond Research and Control Centre

FIGURE

Load Table AC/Utility Panel-5

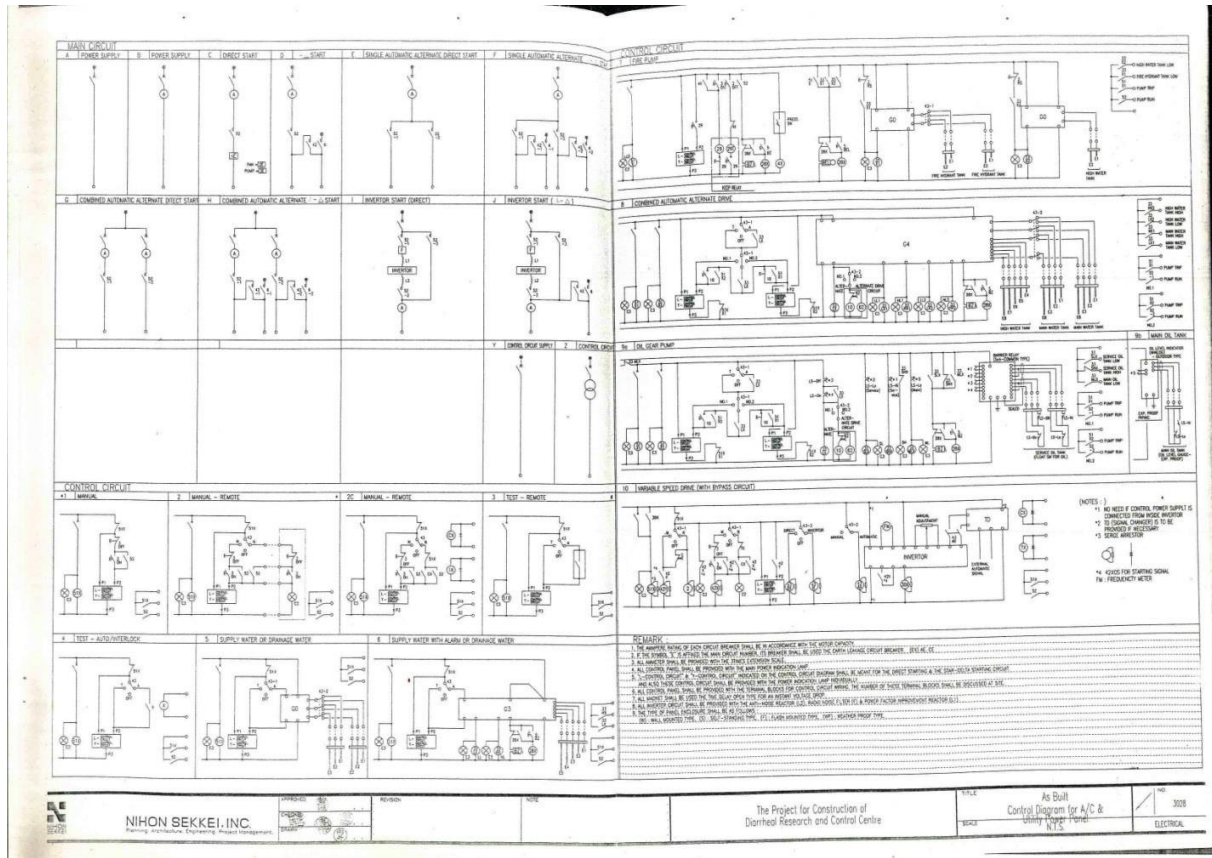
SCALE

N.T.S.

NO.

3007

ELECTRICAL



1. Water supply work
2. Hot water supply work
3. Drainage work
4. Sanitary fixture work
5. LP Gas supply work
6. Fire fighting work
7. Medical waste water
8. Wastewater treatment work
9. Sewerage work

4. Air conditioning work
 1. Air conditioning equipment work
 2. Piping work
 3. Ventilating work
 4. Automatic control work

Plumbing Work

- [illegible]

Air Conditioning Work

1. **Air Conditioning Units**
Indicators in Condition/Status Section that are expected for each operating condition are:
 - **Normal** – all indicators are in the normal range and the compressor is operating at continuous, calculating values and there is steady pressure in the air lines. The unit will be in the normal range and the compressor will be in the normal range and the compressor will be in the normal range.
 - **Normal** – all indicators are in the normal range and the compressor is operating at continuous, calculating values and there is steady pressure in the air lines. The unit will be in the normal range and the compressor will be in the normal range.
 - **Normal** – all indicators are in the normal range and the compressor is operating at continuous, calculating values and there is steady pressure in the air lines. The unit will be in the normal range and the compressor will be in the normal range.
2. **Filling work**
The following are the requirements of air conditioning and compressed shall be provided. Air shall be provided and the required quantity shall be provided in the required manner.
3. **Conditioning work**
The items that are furnished with air conditioning shall be provided in the required manner. The required quantity shall be provided in the required manner.
4. **Automatic control system**
Automatic control system and management system shall be provided in the required manner. The required quantity shall be provided in the required manner.
5. **Working condition**
The following are the requirements of air conditioning and compressed shall be provided. Air shall be provided and the required quantity shall be provided in the required manner.
6. **Working condition**
The following are the requirements of air conditioning and compressed shall be provided. Air shall be provided and the required quantity shall be provided in the required manner.

DESIGN CONDITION

Planting Work

- | | |
|--|--|
| 1. Water supply
Water source
Water consumption | City water and deionized water
Treated water
Tap water
Initial
50 ml |
| 2. Gas supply
Kind of gas
Copper | LPG (Liquefied Petroleum Gas)
1,000 kcal/kg |
| 3. Fire fighting
Standard | Local Regulations and Standards in TQM
(in process) |

air conditioning work.

Design Criteria

	Cooling	Heating	Relative Humidity (%)
Room	20.0°C (DB) ±2	—	—
Laboratory	26.0°C (DB) ±2	—	—
Animal house	20–24°C (DB)	20–24°C (DB)	40–70%
Incubator	—	37.0°C (DB) ±2	—
Outdoor	32.0°C (DB)	13.1°C (DB)	—

- | | | |
|---------|--------------|-------------|
| Control | 28.5 °C (46) | 8.1 °C (48) |
|---------|--------------|-------------|

room	air change (times/h)
Laboratory	3 with AC
Feeding Room of Animal House	13 with AC
storage	3
machine room	3
electric room, generator room etc.	depend on the production of heat

F4P2 MATERIALS

PUMP	MATERIALS
Water supply pump (general)	PVC pipe (JIS K 6742)
Water supply pump (special)	Galvanized steel pipe (JIS K 5452)
Water supply pump	Copper pipe (type A) (JIS K 3360)
Drainage pump (general)	PVC pipe (JIS K 6742)
Drainage pump (special)	PVC ribbed steel pipe (JIS K 5452)
Vent pipe	PVC pipe (type A) (JIS K 6742)
Gas pipe	Galvanized steel pipe (JIS K 5452)
Gas hydrant pipe	Galvanized steel pipe (JIS K 5452)
Condensate drain pipe	PVC pipe (JIS K 6742)
Refrigerant pipe	Copper pipe (type A) (JIS K 3360) with plastic insulated pipe (JIS A 7250)

level). Outside (exposed) PVC piping that be covered by flexible hose with anti-siphon (i.e., using) resistance and FPD hose also.

1. **INSTRUMENTATION**

Materials and thickness are described in general specifications.

PIPE, DUCT	CATEGORY	REMARKS
Water supply pipe	○	
Hot water supply pipe	○	
Drainage pipe	○	for air-condition
Vent pipe	△	
Gas pipe	△	
Fire hydrant pipe	△	
Condensed drainage pipe	○	
Foam-pipe	○	
Supply / Return / Fresh air duct	○	Plastic insulated pipe (JISA T202)
Exhaust air duct	△	

CATEGORY ○: NECESSARY
×: NOT NECESSARY

DUCT MATERIALS

DUCT	MATERIALS
Supply / return air duct for A/C	Galvanized steel sheet or spiral duct
Supply / return air duct for A/C on infectious control room	Galvanized steel sheet or spiral duct (tight posture type)
Exhaust air duct for animal house feeding room	PVC pipe (JIS K5711) or stainless steel duct (JIS 304 (JIS C4205))
Exhaust air duct (general)	Galvanized steel sheet or spiral duct
Exhaust air duct (colony culture)	PVC pipe (JIS K 5711) or Stainless steel sheet (JIS 304 (JIS C 4205))
Exhaust Point	Stainless steel sheet (JIS 304 (JIS C 130

of equation



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www.ck12.org	Chapter 10
Math	Geometry
Grade 10	Unit 10

The Project for Creation of
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1752

$$\frac{d}{dt} \left(\frac{1}{\sqrt{g}} \right) = -\frac{1}{2} g^{-3/2} \text{Tr}(g^{-1} \dot{g})$$

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EQUIPMENT SCHEDULE - 1

Equipment No.	Name	Specifications	Rating Power (kW)	Flow (m³/min)	Location	Remarks	
PAC = 1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 1	Operated by	Controlled by		
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Compressor	Capacity: 35.0kW	3	450	30	2.0	
	Condenser	Capacity: 35.0kW	3	450	30	2.0	
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	
	Accessories	Capacity: 35.0kW	3	450	30	2.0	
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
PAC = 1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 2	Operated by	Controlled by		
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Compressor	Capacity: 35.0kW	3	450	30	2.0	
	Condenser	Capacity: 35.0kW	3	450	30	2.0	
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	
	Accessories	Capacity: 35.0kW	3	450	30	2.0	
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
PAC = 1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 3	Operated by	Controlled by		
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Compressor	Capacity: 35.0kW	3	450	30	2.0	
	Condenser	Capacity: 35.0kW	3	450	30	2.0	
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	
	Accessories	Capacity: 35.0kW	3	450	30	2.0	
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
PAC = 1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 4	Operated by	Controlled by		
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	
	Compressor	Capacity: 35.0kW	3	450	30	2.0	
	Condenser	Capacity: 35.0kW	3	450	30	2.0	
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	
	Accessories	Capacity: 35.0kW	3	450	30	2.0	
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0
	W / Operation manual	Accessories	Capacity: 35.0kW	3	450	30	2.0

Equipment No.	Name	Specifications	Rating Power (kW)	Flow (m³/min)	Location	Subject	Remarks
1005	1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 5	Operated by	Controlled by	
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Compressor	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Condenser	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
	Accessories	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 5
1006	1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 6	Operated by	Controlled by	
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Compressor	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Condenser	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
	Accessories	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 6
1007	1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 7	Operated by	Controlled by	
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Compressor	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Condenser	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
	Accessories	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 7
1008	1000 Series Packaged Air Conditioner	Four Standing Air Pump Type (Heat Pump, Dual Exhaust)	Direct 2P A/C No.	1000 Series No. 8	Operated by	Controlled by	
	Indoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Outdoor Unit	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Compressor	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Condenser	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Evaporator	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Refrigerant	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8
	Accessories	Capacity: 35.0kW	3	450	30	2.0	1000 Series No. 8

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Sequence #	Name	Description	Electric Power Supply			Location	Status	Remarks
			Phase	Phase/Phase	Current			
			1	2	3			
</								

System No.	Notes	Specifications	Electric Power (Watts) CFL/Compact fluorescent/Incandescent 2.2 / 18 / 60 W	Control Switch	Location	Sub Plot	Remarks	System No.	Notes	Specifications	Electric Power (Watts) CFL/Compact fluorescent/Incandescent 2.2 / 18 / 60 W	Control Switch	Location	Sub Plot	Remarks
PAC - 12345	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room			PAC - 12345	Control Paraphernalia No Compressor	Ceiling Mounted Ceiling Only	1	Direct	Service Room		
		Sub Plot								Sub Plot					
		Ceiling Capacity	3.5 kW							Ceiling Capacity	3.5 kW				
		Fan	500 CMM							Fan	500 CMM				
		Power	1800 W							Power	1800 W				
		Pipe Size	412.7 / 45.4							Pipe Size	412.7 / 45.4				
		Sub Plot								Sub Plot					
		Fan	2400 W							Fan	2400 W				
		Compressor	300 W							Compressor	300 W				
		W / West Remote Controller								W / West Remote Controller					
PAC - 12346	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room			PAC - 12346	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room		
		Sub Plot								Sub Plot					
		Ceiling Capacity	3.5 kW							Ceiling Capacity	3.5 kW				
		Fan	500 CMM							Fan	500 CMM				
		Power	1800 W							Power	1800 W				
		Pipe Size	412.7 / 45.4							Pipe Size	412.7 / 45.4				
		Sub Plot								Sub Plot					
		Fan	2400 W							Fan	2400 W				
		Compressor	300 W							Compressor	300 W				
		W / West Remote Controller								W / West Remote Controller					
PAC - 12347	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room			PAC - 12347	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room		
		Sub Plot								Sub Plot					
		Ceiling Capacity	3.5 kW							Ceiling Capacity	3.5 kW				
		Fan	500 CMM							Fan	500 CMM				
		Power	1800 W							Power	1800 W				
		Pipe Size	412.7 / 45.4							Pipe Size	412.7 / 45.4				
		Sub Plot								Sub Plot					
		Fan	2400 W							Fan	2400 W				
		Compressor	300 W							Compressor	300 W				
		W / West Remote Controller								W / West Remote Controller					
PAC - 12348	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room			PAC - 12348	Control Paraphernalia No Compressor	Wall Mounted Ceiling Only	1	Direct	Service Room		
		Sub Plot								Sub Plot					
		Ceiling Capacity	3.5 kW							Ceiling Capacity	3.5 kW				
		Fan	500 CMM							Fan	500 CMM				
		Power	1800 W							Power	1800 W				
		Pipe Size	412.7 / 45.4							Pipe Size	412.7 / 45.4				

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Experiment No.	Name
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Page No.	Size	Specifications	Details Price	Supply	Subtotal	Unit Price	Quantity	Subject	Remarks
			Contract	Contract					
PAC - 4350	Coated Polyethylene 400 Grams	Wet Weather Coating Only	1	1	1	1	1	1	1
		Coating Capacity	1.000						
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
PAC - 4350	Coated Polyethylene 400 Grams	Wet Weather Coating Only	1	1	1	1	1	1	1
		Coating Capacity	1.000						
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
PAC - 4350	Coated Polyethylene 400 Grams	Wet Weather Coating Only	1	1	1	1	1	1	1
		Coating Capacity	1.000						
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
PAC - 4350	Coated Polyethylene 400 Grams	Wet Weather Coating Only	1	1	1	1	1	1	1
		Coating Capacity	1.000						
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
PAC - 4350	Coated Polyethylene 400 Grams	Wet Weather Coating Only	1	1	1	1	1	1	1
		Coating Capacity	1.000						
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					
		Coating Unit	1.000	0.000					
		Flow	1.000	0.000					
		Flow Rate	1.000	0.000					

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Inventory #	Name	Specifications	Quantity	Excluded Power Supply Excluded Power Supply Excluded Power Supply	Location	Subsect	Remarks
SP - 208	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.00	Operated by Central Station
SP - 209	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	249	0.0	Operated by Central Station
SP - 214	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	240	0.00	Operated by Central Station
SP - 301	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 302	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 303	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 304	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 400	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 401	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 402	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 403	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station
SP - 404	Supply Fan	Type: Centrifugal Air Flow Rate: 1000 CFM Static Pressure: 0.50 in. W/ vibration Isolating Spring Base - Accessories	1	1	245	0.0	Operated by Central Station

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Accession	Name	Specifications	City	Start Date	End Date	Category	Location	Subject	Remarks
				1	2	3			
SP-107	And Enriched Fuel Type	PIC waste Enriched Fuel Enriched Fuel Spent Fuel Spent Fuel W / Uranium Enriching From Base, Accessories	SP-1	2	415	20	1.3	Chemical	SP-107-1 SP-107-2 SP-107-3 SP-107-4 SP-107-5 SP-107-6 SP-107-7 SP-107-8 SP-107-9 SP-107-10 SP-107-11 SP-107-12 SP-107-13 SP-107-14 SP-107-15 SP-107-16 SP-107-17 SP-107-18 SP-107-19 SP-107-20 SP-107-21 SP-107-22 SP-107-23 SP-107-24 SP-107-25 SP-107-26 SP-107-27 SP-107-28 SP-107-29 SP-107-30 SP-107-31 SP-107-32 SP-107-33 SP-107-34 SP-107-35 SP-107-36 SP-107-37 SP-107-38 SP-107-39 SP-107-40 SP-107-41 SP-107-42 SP-107-43 SP-107-44 SP-107-45 SP-107-46 SP-107-47 SP-107-48 SP-107-49 SP-107-50 SP-107-51 SP-107-52 SP-107-53 SP-107-54 SP-107-55 SP-107-56 SP-107-57 SP-107-58 SP-107-59 SP-107-60 SP-107-61 SP-107-62 SP-107-63 SP-107-64 SP-107-65 SP-107-66 SP-107-67 SP-107-68 SP-107-69 SP-107-70 SP-107-71 SP-107-72 SP-107-73 SP-107-74 SP-107-75 SP-107-76 SP-107-77 SP-107-78 SP-107-79 SP-107-80 SP-107-81 SP-107-82 SP-107-83 SP-107-84 SP-107-85 SP-107-86 SP-107-87 SP-107-88 SP-107-89 SP-107-90 SP-107-91 SP-107-92 SP-107-93 SP-107-94 SP-107-95 SP-107-96 SP-107-97 SP-107-98 SP-107-99 SP-107-100
SP-108	And Enriched Fuel Type	PIC waste Enriched Fuel Enriched Fuel Spent Fuel Spent Fuel W / Uranium Enriching From Base, Accessories	SP-1	2	415	20	1.3	Chemical	SP-108-1 SP-108-2 SP-108-3 SP-108-4 SP-108-5 SP-108-6 SP-108-7 SP-108-8 SP-108-9 SP-108-10 SP-108-11 SP-108-12 SP-108-13 SP-108-14 SP-108-15 SP-108-16 SP-108-17 SP-108-18 SP-108-19 SP-108-20 SP-108-21 SP-108-22 SP-108-23 SP-108-24 SP-108-25 SP-108-26 SP-108-27 SP-108-28 SP-108-29 SP-108-30 SP-108-31 SP-108-32 SP-108-33 SP-108-34 SP-108-35 SP-108-36 SP-108-37 SP-108-38 SP-108-39 SP-108-40 SP-108-41 SP-108-42 SP-108-43 SP-108-44 SP-108-45 SP-108-46 SP-108-47 SP-108-48 SP-108-49 SP-108-50 SP-108-51 SP-108-52 SP-108-53 SP-108-54 SP-108-55 SP-108-56 SP-108-57 SP-108-58 SP-108-59 SP-108-60 SP-108-61 SP-108-62 SP-108-63 SP-108-64 SP-108-65 SP-108-66 SP-108-67 SP-108-68 SP-108-69 SP-108-70 SP-108-71 SP-108-72 SP-108-73 SP-108-74 SP-108-75 SP-108-76 SP-108-77 SP-108-78 SP-108-79 SP-108-80 SP-108-81 SP-108-82 SP-108-83 SP-108-84 SP-108-85 SP-108-86 SP-108-87 SP-108-88 SP-108-89 SP-108-90 SP-108-91 SP-108-92 SP-108-93 SP-108-94 SP-108-95 SP-108-96 SP-108-97 SP-108-98 SP-108-99 SP-108-100
SP-109	And Enriched Fuel Type	PIC waste Enriched Fuel Enriched Fuel Spent Fuel Spent Fuel W / Uranium Enriching From Base, Accessories	SP-1	2	415	20	1.3	Chemical	SP-109-1 SP-109-2 SP-109-3 SP-109-4 SP-109-5 SP-109-6 SP-109-7 SP-109-8 SP-109-9 SP-109-10 SP-109-11 SP-109-12 SP-109-13 SP-109-14 SP-109-15 SP-109-16 SP-109-17 SP-109-18 SP-109-19 SP-109-20 SP-109-21 SP-109-22 SP-109-23 SP-109-24 SP-109-25 SP-109-26 SP-109-27 SP-109-28 SP-109-29 SP-109-30 SP-109-31 SP-109-32 SP-109-33 SP-109-34 SP-109-35 SP-109-36 SP-109-37 SP-109-38 SP-109-39 SP-109-40 SP-109-41 SP-109-42 SP-109-43 SP-109-44 SP-109-45 SP-109-46 SP-109-47 SP-109-48 SP-109-49 SP-109-50 SP-109-51 SP-109-52 SP-109-53 SP-109-54 SP-109-55 SP-109-56 SP-109-57 SP-109-58 SP-109-59 SP-109-60 SP-109-61 SP-109-62 SP-109-63 SP-109-64 SP-109-65 SP-109-66 SP-109-67 SP-109-68 SP-109-69 SP-109-70 SP-109-71 SP-109-72 SP-109-73 SP-109-74 SP-109-75 SP-109-76 SP-109-77 SP-109-78 SP-109-79 SP-109-80 SP-109-81 SP-109-82 SP-109-83 SP-109-84 SP-109-85 SP-109-86 SP-109-87 SP-109-88 SP-109-89 SP-109-90 SP-109-91 SP-109-92 SP-109-93 SP-109-94 SP-109-95 SP-109-96 SP-109-97 SP-109-98 SP-109-99 SP-109-100
SP-110	And Enriched Fuel Type	PIC waste Enriched Fuel Enriched Fuel Spent Fuel Spent Fuel W / Uranium Enriching From Base, Accessories	SP-1	2	415	20	1.3	Chemical	SP-110-1 SP-110-2 SP-110-3 SP-110-4 SP-110-5 SP-110-6 SP-110-7 SP-110-8 SP-110-9 SP-110-10 SP-110-11 SP-110-12 SP-110-13 SP-110-14 SP-110-15 SP-110-16 SP-110-17 SP-110-18 SP-110-19 SP-110-20 SP-110-21 SP-110-22 SP-110-23 SP-110-24 SP-110-25 SP-110-26 SP-110-27 SP-110-28 SP-110-29 SP-110-30 SP-110-31 SP-110-32 SP-110-33 SP-110-34 SP-110-35 SP-110-36 SP-110-37 SP-110-38 SP-110-39 SP-110-40 SP-110-41 SP-110-42 SP-110-43 SP-110-44 SP-110-45 SP-110-46 SP-110-47 SP-110-48 SP-110-49 SP-110-50 SP-110-51 SP-110-52 SP-110-53 SP-110-54 SP

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Segment	Name	Description	Electric Power Supply		System	Location	Subclass	Remarks
			W	Watt				
P-11	Deep Well	Pump	1			Street	East Side	See Dry Dock
		Power Flow Rate		1200 gpm				
		Flow Rate	3	415	50	10		
		Control Panel		100 watt				
P-12	Water Supply	Pump & Control Panel						
		Pump of this operation is under repair of water side tank. Automatically						
		Water supply will be operated by water side tank. Automatically						
		W / Control Panel - Electrical Panel						
P-13	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-14	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-15	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-16	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-17	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-18	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-19	Water Supply	Control Panel						
		Control Panel						
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		Control Panel						
P-20	Water Supply	Control Panel						
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P-21	Water Supply	Control Panel						
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P-22	Water Supply	Control Panel						
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P-23	Water Supply	Control Panel						
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P-24	Water Supply	Control Panel						
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P-25	Water Supply	Control Panel						
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		Control Panel						
P-26	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						
P-27	Water Supply	Control Panel						
		Control Panel						
		Control Panel						
		Control Panel						

Serial No.	Items	Specifications	Electric Power Supply			Location	Subsist	Remarks
			Dr (Phase)	Actual	Standard			
			1	2	3			
8-1	Electric Motor	30 HP	1	3	200	50	20	10000
	Capacity	200 kg/hr						
		5.5 kg/cm ²						
8-2	Water Jacket	Water Tank Capacity: 1000 L Water Jacket Capacity: 100 L Water Jacket Material: SS	1	1	100	50	0.00	10000
8-3	Chemical Feed	Feeder Capacity: 100 kg/hr Feeder Material: Polypropylene	1	1	200	50	0.00	10000
8-4	Electric Motor	Water Tank Capacity: 1000 L Water Jacket Capacity: 100 L Water Jacket Material: SS	2	1	100	50	1.0	10000
8-5	Electric Motor	Water Tank Capacity: 1000 L Water Jacket Capacity: 100 L Water Jacket Material: SS	2	1	100	50	1.0	10000

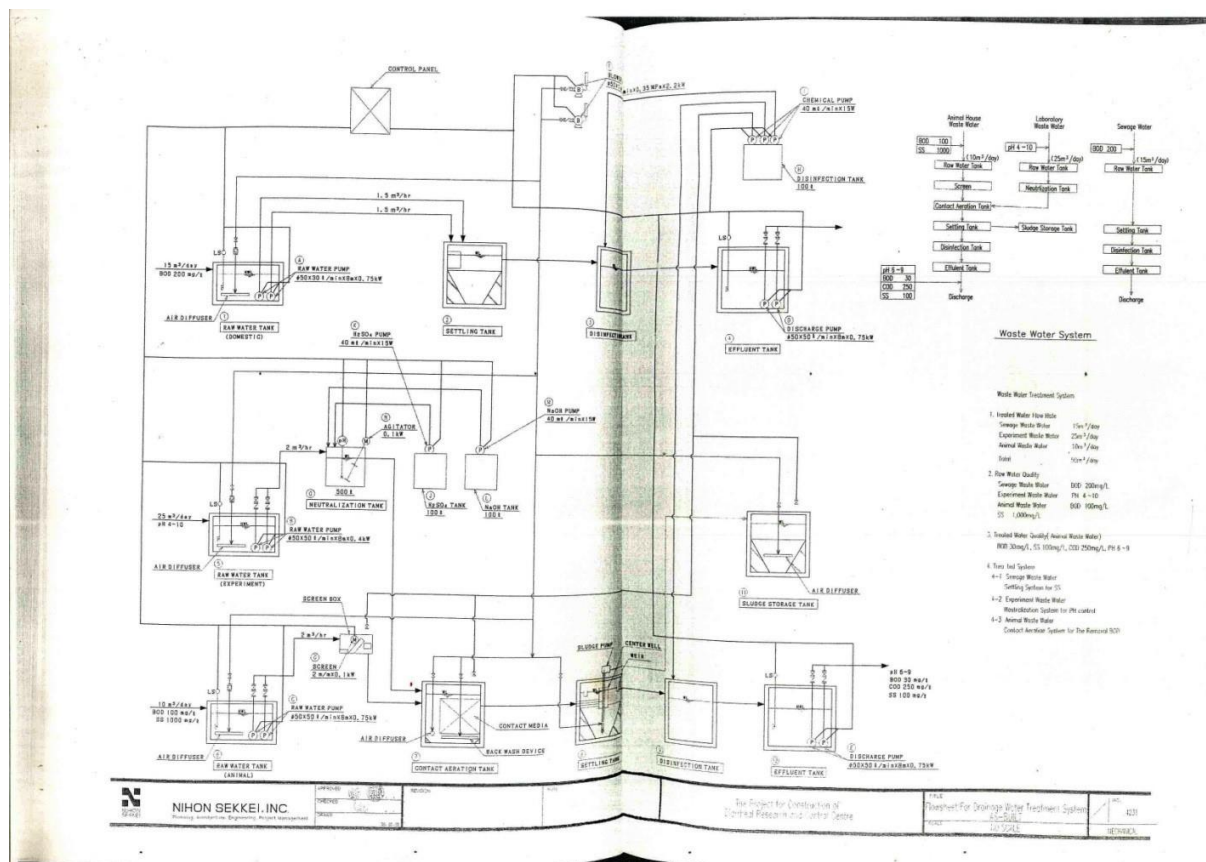
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Index	Type	Description	Location				Status	Notes
			Coordinates					
			Lat	Long	Alt	Depth		
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Sanitary Fixture Schedule - 2

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ANNEXURE I

Tentative AC Details of NICED-1 (ICMR-NICED Campus)

Sr No	Building Name	Floor	Room No	Type of AC	Make	Capacity (Tentative)	Remarks	Remarks
1	NICED-1	Ground	STORE	Casettee AC	McQuay	2 TON	Need AMC	Running
2	NICED-1	Ground	STORE	Casettee AC	McQuay	2 TON	Need AMC	Running
3	NICED-1	Ground	LT Room	Split	LG	1.5 TON	Need AMC	Running
4	NICED-1	Ground	Telephone Room	Window	Carrier	1.5 TON	Need AMC	Running
5	NICED-1	Ground	Driver Room	Window	Carrier	1.5 TON	Need AMC	Running
6	NICED-1	Ground	Driver Room	Split	Carrier	1.5 TON		Not Running
7	NICED-1	Ground	Segounge	Split	LG	2 TON	Need AMC	Running
8	NICED-1	Ground	Media	Window	Voltas	1.5 TON		Not Running
9	NICED-1	Ground	Visitor Room	Split	LG	2 TON	Need AMC	Running
10	NICED-1	Ground	Driver Maintenance Room	Split	LG	2 TON		Not Running
11	NICED-1	Ground	UPS Room	Split	Daikin	1.5 TON	AMC Not Required as part of BSL2+ Facility	Running
12	NICED-1	Ground	UPS Room	Split	Daikin	1.5 TON	AMC Not Required as part of BSL2+ Facility	Running
13	NICED-1	Ground	Sample preparation room	Split	Daikin	2 TON	AMC Not Required as part of BSL2+ Facility	Running
14	NICED-1	Ground	BSL 2+ LAB	Split	Daikin	2 TON	AMC Not Required as part of BSL2+ Facility	Running
15	NICED-1	Ground	BSL 2+ LAB	Split	Daikin	2 TON	AMC Not Required as part of BSL2+ Facility	Running
16	NICED-1	Ground	BSL 2+ LAB	Duct AC	Daikin	2 TON	AMC Not Required as part of BSL2+ Facility	Running
17	NICED-1	1st Floor	Room No-201	Split	Samsung	1.5 TON	Need AMC	Running
18	NICED-1	1st Floor	Room No-202	Split	Samsung	1.5 TON	Need AMC	Running
19	NICED-1	1st Floor	Room No-203	Split	Samsung	2 TON	Need AMC	Running
20	NICED-1	1st Floor	Room No-204	Split	Samsung	2 TON	Need AMC	Running
21	NICED-1	1st Floor	Room No-205	Split	Samsung	1.5 TON	Need AMC	Running
22	NICED-1	1st Floor	Room No-206	Split	Samsung	1.5 TON	Need AMC	Running
23	NICED-1	1st Floor	Room No-207	Window	Bluestar	1.5 TON	Need AMC	Running
24	NICED-1	1st Floor	Room No-208	Window	Voltas	1.5 TON		Not Running
25	NICED-1	1st Floor	Room No-209	Window	SHRIRAM USHA	1.5 TON		Not Running
26	NICED-1	1st Floor	Room No-214	Window	SHRIRAM USHA	1.5 TON		Not Running
27	NICED-1	1st Floor	Room No-210	Window	Carrier	1.5 TON	Need AMC	Running
28	NICED-1	1st Floor	Room No-211	Window	Bluestar	1.5 TON	Need AMC	Running
29	NICED-1	1st Floor	Room No-211	Window	Voltas	1.5 TON	Need AMC after 6 Month	Running
30	NICED-1	1st Floor	GD Power Lab Corridor	Window	Voltas	1.5 TON	Need AMC after 6 Month	Running
31	NICED-1	1st Floor	Room No-212	Window	SHRIRAM USHA	1.5 TON	Need AMC	Running
32	NICED-1	1st Floor	Room No-213	Window	SHRIRAM USHA	1.5 TON		Not Running
33	NICED-1	1st Floor	Room No-213	Window	Bluestar	1.5 TON	Need AMC	Running
34	NICED-1	1st Floor	Room No-216	Window	Bluestar	1.5 TON	Need AMC	Running
35	NICED-1	1st Floor	Room No-216	Split	Citizen	1.5 TON		Not Running
36	NICED-1	1st Floor	Room No-217 A	Window	Carrier	1.5 TON		Not Running
37	NICED-1	1st Floor	Room No-217	Split	McQuay	1.5 TON	Need AMC	Running
38	NICED-1	1st Floor	Room No-218	Window	Voltas	1.5 TON	Need AMC after 6 Month	Running
39	NICED-1	1st Floor	Room No-219	Window	Voltas	1.5 TON	Need AMC after 6 Month	Running
40	NICED-1	1st Floor	Room No-220	Window	Bluestar	1.5 TON	Need AMC	Running
41	NICED-1	1st Floor	Room No-221	Split	Samsung	1.5 TON	Need AMC	Running
42	NICED-1	2nd Floor	Room No-301	Window	Bluestar	1.5 TON	Need AMC	Running
43	NICED-1	2nd Floor	Room No-302	Split	Daikin	1.5 TON	Need AMC after 6 Month	Running

44	NICED-1	2nd Floor	Room No-302	Split	Daikin	1.5 TON	Need AMC after 6 Month	Running
45	NICED-1	2nd Floor	Room No-304	Window	Voltas	1.5 TON	Need AMC	Running
46	NICED-1	2nd Floor	Room No-315	Split	LG	2 TON	Need AMC	Running
47	NICED-1	2nd Floor	Room No-315	Window	Carrier	1.5 TON		Not Running
48	NICED-1	2nd Floor	Room No-315	Window	Bluestar	1.5 TON		Not Running
49	NICED-1	2nd Floor	Library	Casettee AC	LG	4 Ton	Need AMC	Running
50	NICED-1	2nd Floor	Library	Casettee AC	LG	4 Ton	Need AMC	Running
51	NICED-1	2nd Floor	Library	Casettee AC	LG	4 Ton	Need AMC	Running
52	NICED-1	2nd Floor	Library	Casettee AC	LG	4 Ton	Need AMC	Running
53	NICED-1	2nd Floor	Library	Split	LG	2 Ton	Need AMC	Running
54	NICED-1	2nd Floor	ID	Window	Cosmo	1.5 Ton	Need AMC	Running
55	NICED-1	2nd Floor	Room No 306	Casettee AC	Voltas	2 TON	Need AMC	Running
56	NICED-1	2nd Floor	Room No 306	Casettee AC	Voltas	2 TON	Need AMC	Running
57	NICED-1	2nd Floor	Room No 306	Casettee AC	Voltas	2 TON	Need AMC	Running
58	NICED-1	2nd Floor	Data entry room	Split	Voltas	1.5 TON	Need AMC	Running
59	NICED-1	2nd Floor	Room No 309	Split	Voltas	1.5 TON	Need AMC	Running
60	NICED-1	2nd Floor	Room No 309	Split	Voltas	1.5 TON	Need AMC	Running
61	NICED-1	2nd Floor	Room No 310	Split	Voltas	1.5 TON	Need AMC	Running
62	NICED-1	2nd Floor	Room No 310	Split	Voltas	1.5 TON	Need AMC	Running
63	NICED-1	2nd Floor	Autoclave room	Split	Voltas	1.5 TON	Need AMC	Running
64	NICED-1	2nd Floor	Room No 311	Split	Voltas	1.5 TON	Need AMC	Running
65	NICED-1	2nd Floor	Room No 311	Split	Voltas	1.5 TON	Need AMC	Running
66	NICED-1	2nd Floor	Room No 312	Split	Voltas	1.5 TON	Need AMC	Running
67	NICED-1	2nd Floor	Room No 312	Split	Voltas	1.5 TON	Need AMC	Running
68	NICED-1	2nd Floor	Room No 313	Split	Voltas	1.5 TON	Need AMC	Running
69	NICED-1	2nd Floor	Room No 313	Split	Voltas	1.5 TON	Need AMC	Running
70	NICED-1	2nd Floor	Room No 314	Split	Voltas	1.5 TON	Need AMC	Running
71	NICED-1	2nd Floor	Room No 314	Split	Voltas	1.5 TON	Need AMC	Running
72	NICED-1	2nd Floor	Corridor	Casettee AC	Voltas	2 TON	Need AMC	Running
73	NICED-1	2nd Floor	Corridor	Casettee AC	Voltas	2 TON	Need AMC	Running
74	NICED-1	3rd Floor	Room No 401	Window	Carrier	1.5 Ton	Need AMC	Running
75	NICED-1	3rd Floor	Room No 401	Window	SHRIRAM USHA	1.5 Ton		Not Running
76	NICED-1	3rd Floor	Room No 402	Window	Voltas	1.5 Ton	Need AMC	Running
77	NICED-1	3rd Floor	Room No 402	Window	Voltas	1.5 Ton		Not Running
78	NICED-1	3rd Floor	Room No 403	Window	SHRIRAM USHA	1.5 Ton		Not Running
79	NICED-1	3rd Floor	Room No 403	Split	Daikin	1.5 Ton	Need AMC after 6 Month	Running

80	NICED-1	3rd Floor	Room No 404	Window	SHRIRAM USHA	1.5 Ton	Need AMC after 6 Month	Running
81	NICED-1	3rd Floor	Room No 404	Window	Voltas	1.5 Ton		Not Running
82	NICED-1	3rd Floor	Room No 405	Window	Carrier	1.5 Ton		Not Running
83	NICED-1	3rd Floor	Room No 406	Split	Daikin	1.5 Ton	Need AMC after 6 Month	Running
84	NICED-1	3rd Floor	Room No 406	Window	SHRIRAM USHA	1.5 Ton	Need AMC after 6 Month	Running
85	NICED-1	3rd Floor	Room No 407	Window	Carrier	1.5 Ton	Need AMC after 6 Month	Running
86	NICED-1	3rd Floor	Room No 407	Window	Bluestar	1.5 Ton		Not Running
87	NICED-1	3rd Floor	Room No 407	Window	Voltas	1.5 Ton		Not Running
88	NICED-1	3rd Floor	Room No 408	Window	Hilicon	1.5 Ton	Need AMC	Running
89	NICED-1	3rd Floor	Room No 409	Window	Cosmo	1.5 Ton		Not Running
90	NICED-1	3rd Floor	Room No 409	Window	Carrier	1.5 Ton		Not Running
91	NICED-1	3rd Floor	Room No 410	Window	Carrier	1.5 Ton	Need AMC	Running
92	NICED-1	3rd Floor	Room No 411	Window	Voltas	1.5 Ton	Need AMC	Running
93	NICED-1	3rd Floor	Room No 412	Window	SHRIRAM USHA	1.5 Ton	Need AMC	Running
94	NICED-1	3rd Floor	Room No 413	Window	SHRIRAM USHA	1.5 Ton	Need AMC	Running
95	NICED-1	3rd Floor	Room No 421	Window	Voltas	1.5 Ton	Need AMC	Running
96	NICED-1	3rd Floor	Guest House-1	Split	Daikin	2 Ton	Need AMC	Running
97	NICED-1	3rd Floor	Guest House-2	Split	LG	2 Ton	Need AMC	Running
98	NICED-1	3rd Floor	Guest House-3	Window	Carrier	1.5 Ton	Need AMC	Running
99	NICED-1	3rd Floor	Guest House-4	Window	Bluestar	1.5 Ton	Need AMC	Running
100	NICED-1	3rd Floor	Guest House-5	Window	SHRIRAM USHA	1.5 Ton	Need AMC	Running
101	NICED-1	3rd Floor	Guest House-6	Window	Voltas	1.5 Ton	Need AMC	Running
102	NICED-1	3rd Floor	Guest House-7	Window	SHRIRAM USHA	1.5 Ton	Need AMC	Running
103	NICED-1	4th Floor	Association Room	Window	Cosmo	1.5 Ton	Need AMC	Running
104	NICED-1	4th Floor	Association Room	Window	icon	1.5 Ton	Need AMC	Running
105	NICED-1	4th Floor	Association Room	Window	Accer	1.5 Ton		Not Running
106	NICED-1	4th Floor	Association Room	Window	Accer	1.5 Ton		Not Running
107	NICED-1	4th Floor	Room No-503	Window	Carrier	1.5 Ton		Not Running
108	NICED-1	4th Floor	Room No-504	Window	Carrier	1.5 Ton		Not Running
109	NICED-1	4th Floor	Room No-502	Window	Carrier	1.5 Ton	Need AMC	Running

Note:Some of the AC specification may be changed/differed subject to utilization & requirement on time to time which should be under consideration of Vendor for realtime application.

ANNEXURE 2

Tentative AC Details of NICED-2(ICMR-NICED Campus)

Sr No	Building Name	Floor	Room No	Type of AC	Make	Capacity (Tentative)	Remarks	Remarks
1	NICED-2	Ground	Reception	Tower	LG	3 Ton		Not Working
2	NICED-2	Ground	Reception	Tower	LG	3 Ton		Not Working
3	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
4	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
5	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
6	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
7	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
8	NICED-2	Ground	Room No 1	Ceiling Suspended	LG	2 Ton		Not Working
9	NICED-2	Ground	Room No 2	Split AC	Videocon	2 Ton		Not Working
10	NICED-2	Ground	Room No 3	Split AC	Mcquay	1.5 Ton	Need AMC	Running
11	NICED-2	Ground	Room No 4	Split AC	Citizen	2 Ton	Need AMC	Running
12	NICED-2	1st	Room No 102	Duct AC	Bluestar	2 Ton	Need AMC	Running
13	NICED-2	1st	Room No 103	Split AC	Hitachi	2 Ton	Need AMC	Running
14	NICED-2	1st	Room No 104	Split AC	LG	1.5 Ton	Need AMC	Running
15	NICED-2	1st	Room No 105	Duct AC	Bluestar	2 Ton	Need AMC	Running
16	NICED-2	1st	Room No 106	Duct AC	Bluestar	2 Ton	Need AMC	Running
17	NICED-2	1st	Room No 107	Split AC	LG	2 Ton		Not Working
18	NICED-2	1st	Room No 107	Duct AC	Bluestar	4 Ton	Need AMC	Running
19	NICED-2	1st	Room No 108	Split AC	Citizen	2 Ton	Need AMC	Running
20	NICED-2	1st	Room No 108	Split AC	Citizen	2 Ton	Need AMC	Running
21	NICED-2	1st	Room No 109	Split AC	Hitachi	2 Ton	Need AMC	Running
22	NICED-2	1st	1ST Floor AC Room	Package AC	Bluestar	10 Ton	Need AMC	Running
23	NICED-2	1st	Room No 110	Package AC	Bluestar	15 Ton	Need AMC	Running
24	NICED-2	1st	Room No 114	Split AC	LG	1.5 Ton	Need AMC	Running
25	NICED-2	1st	Room No 115	Split AC	LG	1.5 Ton	Need AMC	Running
26	NICED-2	2nd	Room No 201	Duct AC	Bluestar	4 Ton	Need AMC	Running
27	NICED-2	2nd	Room No 202	Split AC	Mcquay	2.5 Ton	Need AMC	Running
28	NICED-2	2nd	Room No 204	Duct AC	Bluestar	11 Ton	Need AMC	Running
29	NICED-2	2nd	AC Room	Package AC	Bluestar	10 Ton	Need AMC	Running
30	NICED-2	2nd	AC Room	Package AC	Bluestar	5 Ton	Need AMC	Running
31	NICED-2	2nd	Room No 207	Duct AC	Bluestar	4 Ton	Need AMC	Running
32	NICED-2	3rd	Room No 302	Duct AC	Bluestar	2 Ton		Not Working
33	NICED-2	3rd	Room No 303	Duct AC	Bluestar	2 Ton		Not Working
34	NICED-2	3rd	Room No 303	Duct AC	Bluestar	2 Ton		Running
35	NICED-2	3rd	Room No 303	Duct AC	Bluestar	2 Ton		Not Working
36	NICED-2	3rd	Room No 304	Split AC	Mcquay	2.5 Ton	Need AMC	Running
37	NICED-2	3rd	Room No 304	Split AC	Mcquay	2.5 Ton	Need AMC	Running
38	NICED-2	3rd	Room No 305	Split AC	Mcquay	2.5 Ton	Need AMC	Running
39	NICED-2	3rd	Room No 309	Split AC	Videocon	2 Ton	Need AMC	Running
40	NICED-2	3rd	Room No 310	Split AC	Videocon	2 Ton	Need AMC	Running
41	NICED-2	3rd	AC Room	Package AC	Bluestar	10 Ton	Need AMC	Running
42	NICED-2	3rd	AC Room	Package AC	Bluestar	10 Ton	Need AMC	Running
43	NICED-2	4th	Room No 401	Duct AC	Bluestar	4 Ton	Need AMC	Running with Half unit
44	NICED-2	4th	Seminar Room	Duct AC	Bluestar	7.5 Ton	Need AMC	Running
45	NICED-2	4th	Seminar Room	Duct AC	Bluestar	7.5 Ton	Need AMC	Running
46	NICED-2	4th	Seminar Room	Duct AC	Bluestar	7.5 Ton	Need AMC	Running
47	NICED-2	4th	Room No 403	Split AC	Videocon	2 Ton	Need AMC	Running
48	NICED-2	4th	Room No 404	Split AC	Videocon	2 Ton	Need AMC	Running
49	NICED-2	4th	Room No 405	Split AC	Videocon	2 Ton	Need AMC	Running

ANNEXURE III

Tentative AC Details of JICA Building (ICMR-NICED Campus)

Sr No	Building Name	Floor	Room No	Type of AC	Make	Capacity (Tentative)	Remarks	Remarks
1	JICA	Ground	Animal House	Pacakge AC	Mc No 1101-Daikin	15.2 Ton		Not Working
2	JICA	Ground	Animal House	Pacakge AC	Mc No 1102-Daikin	15.2 Ton		Not Working
3	JICA	Ground	Animal House	Pacakge AC	Mc No 1103-Daikin	38 Ton		Not Working
4	JICA	Ground	Animal House	Pacakge AC	Mc No 1104-Daikin	7.6 Ton		Not Working
5	JICA	Ground	Animal House	Pacakge AC	Mc No 1105-Daikin	15.2 Ton		Not Working
6	JICA	Ground	Animal House	Pacakge AC	Mc No 1106-Daikin	15.2 Ton		Not Working
7	JICA	Ground	Animal House Office	Split	Daikin	0.75 TR	Need AMC	Running
8	JICA	Ground	Animal House Change room-Gents	Split	Daikin	0.75 TR	Need AMC	Running
9	JICA	Ground	Animal House Change room-Ladies	Split	Daikin	0.75 TR		Not Working
10	JICA	Ground	Animal House Lab	Split	Mcquay	1.5 Ton	Need AMC	Running
11	JICA	Ground	Animal House Lab	Split	Hitachi	2 Ton	Need AMC	Running
12	JICA	Ground	Animal House SC Room	Split	Mcquay	0.75 TR	Need AMC	Running
13	JICA	Ground	Engineer room	Split	Daikin	1.5 Ton		Not Working
14	JICA	Ground	Security Room	Split	LG	1.5 Ton	Need AMC	Running
15	JICA	Ground	Reception	Casette	Bluestar	2 Ton		Not Working
16	JICA	Ground	Reception	Casette	Bluestar	2 Ton		Not Working
17	JICA	Ground	Reception	Casette	Daikin	2 Ton		Not Working
18	JICA	Ground	Animal House	Pacakge AC	Carrier	5 Ton	Need AMC	Not Working
19	JICA	Ground	Animal House	Pacakge AC	Carrier	5 Ton	Need AMC	Not Working
20	JICA	Ground	Animal House	Pacakge AC	Hitachi	4 Ton		Not Working
21	JICA	1st	Okayama Univ.	Split	Daikin	3 Ton	Need AMC	Running
22	JICA	1st	Okayama Univ.	Split	Daikin	1.5 Ton	Need AMC	Running
23	JICA	1st	Meeting Room	Casette	Daikin	2 Ton	Need AMC	Running
24	JICA	1st	Meeting Room	Casette	Daikin	2 Ton	Need AMC	Running
25	JICA	1st	Bacteriology	Casette	Daikin	3.1 Ton	Need AMC	Running
26	JICA	1st	Bacteriology	Casette	Daikin	3.1 Ton	Need AMC	Running
27	JICA	1st	Bacteriology	Casette	Daikin	3.1 Ton	Need AMC	Running
28	JICA	1st	Bacteriology	Split	Mcquay	2.5 Ton	Need AMC	Running
29	JICA	1st	Bacteriology	Split	Mcquay	2.5 Ton	Need AMC	Running
30	JICA	1st	Bacteriology-SC Room	Split	Mcquay	0.75 Ton	Need AMC	Running
31	JICA	1st	Bacteriology-SC Room	Split	Mcquay	0.75 Ton	Need AMC	Running
32	JICA	1st	EM Lab	Split	Daikin	1 Ton	Need AMC	Running
33	JICA	1st	EM Lab	Split	Daikin	1 Ton	Need AMC	Running
34	JICA	1st	EM Lab	Split	Daikin	1 Ton	Need AMC	Running
35	JICA	1st	EM Lab	Split	Daikin	1.5 Ton	Need AMC	Running
36	JICA	1st	EM Lab	Pacakge AC	Daikin	6 Ton	Need AMC	Running
37	JICA	1st	Serum Bank	Pacakge AC	Daikin	6 Ton	Need AMC	Running
38	JICA	1st	Serum Bank	Casette	Daikin	1 Ton	Need AMC	Running
39	JICA	1st	Library	Split	Daikin	2 Ton	Need AMC	Running
40	JICA	1st	Data management	Split	Daikin	0.75 Ton	Need AMC	Running
41	JICA	1st	Data management	Split	Daikin	1.5 Ton		Not Working
42	JICA	1st	Data management	Split	Daikin	1.5 Ton		Not Working
43	JICA	1st	Data management	Split	Daikin	1.5 Ton	Need AMC	Running
44	JICA	1st	Immeniology	Casette	Mcquay	2.5 Ton	Need AMC	Running
45	JICA	1st	Immeniology	Casette	Mcquay	2.5 Ton		Not Working
46	JICA	1st	Immeniology	Split	Daikin	1.5 Ton	Need AMC	Running
47	JICA	1st	Immeniology-SC Room	Split	Mcquay	0.75 Ton	Need AMC	Running
48	JICA	1st	Immeniology	Split	Daikin	0.75 Ton	Need AMC	Running
49	JICA	1st	Japan-Director Room	Split	Daikin	1 Ton	Need AMC	Running
50	JICA	1st	Japan-Director Room	Split	Daikin	1 Ton	Need AMC	Running
51	JICA	1st	Dr Amit Pal's Room	Split	Daikin	0.75 Ton	Need AMC	Running
52	JICA	1st	Direcor's room	Split	Daikin	3 Ton	Need AMC	Running

53	JICA	1st	Director's Secretary room	Split	Daikin	1.5 Ton	Need AMC	Running
54	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
55	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
56	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
57	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
58	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
59	JICA	2nd	Pathophysiology Lab	Casette	Daikin	2.1 Ton	Need AMC	Running
60	JICA	2nd	Pathophysiology Lab-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
61	JICA	2nd	Pathophysiology Lab-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
62	JICA	2nd	Pathophysiology Lab-Tissuculture Room	Pacakge AC	Daikin	2.1 Ton	Need AMC	Running
63	JICA	2nd	Cold Room	Pacakge AC	Misubishi	4 Ton	Need AMC	Running
64	JICA	2nd	immunology	Casette	Daikin	2.1 Ton	Need AMC	Running
65	JICA	2nd	immunology	Casette	Daikin	2.1 Ton	Need AMC	Running
66	JICA	2nd	Immunology	Casette	Daikin	2.1 Ton	Need AMC	Running
67	JICA	2nd	Immunology	Casette	Daikin	2.1 Ton	Need AMC	Running
68	JICA	2nd	Immunology-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
69	JICA	2nd	Immunology-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
70	JICA	2nd	Immunology-Tissuluture	Split	Daikin	6 Ton	Need AMC	Running
71	JICA	2nd	Epidemiology	Casette	Daikin	1.5 Ton	Need AMC	Running
72	JICA	2nd	Epidemiology	Casette	Daikin	1.5 Ton	Need AMC	Running
73	JICA	2nd	Epidemiology	Casette	Daikin	1.5 Ton	Need AMC	Running
74	JICA	2nd	Epidemiology	Casette	Daikin	1.5 Ton	Need AMC	Running
75	JICA	2nd	Epidemiology-SC Room	Split	LG	2 Ton	Need AMC	Running
76	JICA	2nd	Epidemiology-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
77	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
78	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
79	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
80	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
81	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
82	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
83	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
84	JICA	2nd	Virology	Casette	Daikin	2.1 Ton	Need AMC	Running
85	JICA	2nd	Virology-SC Room	Split	Daikin	1.5 Ton	Need AMC	Running
86	JICA	2nd	Virology-SC Room	Split	Daikin	0.75 Ton	Need AMC	Running
87	JICA	2nd	Virology-SC Room	Split	Daikin	1.5 Ton		Not Working
88	JICA	2nd	Virology-Tissuculture Room	Split	Daikin	2 Ton	Need AMC	Running
89	JICA	2nd	Central Facility	Casette	Mcquay	2 Ton	Need AMC	Running
90	JICA	2nd	Central Facility	Casette	Daikin	1.5 Ton	Need AMC	Running
91	JICA	2nd	Central Facility	Split	Mcquay	0.75 Ton	Need AMC	Running
92	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
93	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
94	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
95	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
96	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
97	JICA	3rd	Microbiology	Casette	Daikin	3 Ton		Not Working
98	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
99	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
100	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
101	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
102	JICA	3rd	Microbiology	Casette	Daikin	3 Ton	Need AMC	Running
103	JICA	3rd	Microbiology-SC Room	Casette	Daikin	1 Ton	Need AMC	Running
104	JICA	3rd	Microbiology-SC Room	Split	Daikin	1.5 Ton	Need AMC	Running
105	JICA	3rd	Microbiology-Nitrogen room	Split	Daikin	0.75 Ton	Need AMC	Running
106	JICA	3rd	Central Facility	Casette	Daikin	4 Ton	Need AMC	Running
107	JICA	3rd	Central Facility	Casette	Daikin	1.8 Ton		Not Working
108	JICA	3rd	Microbiology-Tissuculture Room	Pacakge AC	Daikin	7.5 Ton		Not Working
109	JICA	3rd	Paracitalogy	Casette	Daikin	3.1 Ton	Need AMC	Running
110	JICA	3rd	Paracitalogy	Casette	Daikin	3.1 Ton	Need AMC	Running
111	JICA	3rd	Paracitalogy	Casette	Daikin	3.1 Ton		Not Working

