

Nepal Water for Health (NEWAH)

Lohasal, Kathmandu, Nepal

Air Conditioner - Terms of Reference (ToR)

The air conditioning unit shall be a **1.5 Ton split-type Inverter air conditioner** designed for both **cooling and heating purposes**, suitable for office use.

1. Power Supply & Requirements

- Rated Voltage: **220–240 V**
- Frequency: **50–60 Hz**
- Phase: **Single-phase operation**
- **Required Quantity 1Pcs.**

2. Cooling & Heating Capacity

- Cooling Capacity: **18,000 BTU/hr**
- Heating Capacity: **19,000 BTU/hr**

3. Electrical Specifications

- Cooling Power Input: **1820 Watts**
- Heating Power Input: **1900 Watts**
- Operating Current:
 - Cooling: **8.60 A**
 - Heating: **8.40 A**

4. Energy Efficiency

- Energy Efficiency Ratio (EER): **3.08 W/W**
- Coefficient of Performance (COP): **3.05 W/W**

The unit shall be energy efficient, consuming significantly less power compared to conventional air conditioners (~5200 W).

5. Air Flow Performance

- Indoor Air Flow Volume: **730 m³/h**

The system shall ensure effective air distribution and fast cooling/heating.

6. Noise Level

- Indoor Unit Noise Level: **33 dBA**
- Outdoor Unit Noise Level: **53 dBA**

Indoor noise shall remain low and suitable for quiet environments such as bedrooms and offices.

7. Coverage Area

- Applicable Room Area: **26–30 m²**

Small to medium office spaces

8. Functional Requirements

The air conditioner shall:

- Provide both cooling and heating modes
 - Maintain stable temperature control
 - Operate efficiently under standard voltage conditions
 - Deliver uniform airflow distribution
-

9. Performance Expectations

- High energy efficiency for reduced electricity consumption
 - Reliable operation with standard household wiring
 - Quiet indoor performance for comfort
 - Adequate cooling for medium-sized rooms
-

Conclusion

This specification defines a **1.5 Ton split-type Inverter air conditioner** suitable for medium-sized spaces, offering balanced performance, low noise operation, and reduced power consumption compared to conventional units.

Submission Required Document

- Company Registration
- VAT registration
- Tax Clearance Certificate (FY-2081/2082)
- Warranty or Guaranty and after-sales commitment.

Submission Deadline

The Sealed Quotation must be submitted to the NEWAH office no later than **9 July 2026**, before **5:00 PM**. Submissions received after the deadline will not be considered.

Contact Information

Nepal Water for Health (NEWAH)

Lohasal, Kathmandu, Nepal

Contact Number: 01-4015608, 4015707

NEWAH reserves the right to accept or reject any or all quotations without assigning any reason.