

*Matter for publishing in website.*

**NOTICE INVITING TENDER FOR VRF SYSTEM**  
**AT BRANCH OFFICE, PURI.**

Senior Deputy Accountant General (Admn), Office of the Principal Accountant General (A&E), Odisha, Bhubaneswar-751001, invites sealed bids in Two-Bid (simultaneous receipt of separate technical and financial bids) system i.e. Technical and Financial from reputed eligible vendors for supply, installation and commissioning of VRF Air-conditioning system in Puri Branch Office, Puri confirming to the terms and conditions as mentioned in tender document.

Last date of receipt of tender by speed post / Registered post/by hand is 25.06.2026

  
Sr. Deputy Accountant General (Admn)

**Tender Submission Address:-**

Sr. Deputy Accountant General (Amin.)  
O/o the Principal Accountant General (A & E)  
Odisha, Bhubaneswar-751001

**TENDER**

1. **Bid End Date/Time:** 25-06-2026 at 5:30PM
2. **Bid Opening Date/Time :** (a) **Technical Bid on 29.06.2026**  
(b) **Financial Bid on 03.07. 2026**
3. **Ministry/State Name :** Comptroller and Auditor General (CAG) Of India/Odisha State
4. **Organisation Name :** **Principal** Accountant General(A& E), Odisha, Bhubaneswar
5. **Total Quantity:** 176, Bid Value : Rs. 40,00,000/- ( Inclusive of all taxes.

6. **Item Category:** **VRF Air Conditioners Conforming to IS 18728**

OUTDOOR UNIT TOP DISCHARGE , 4-WAY CASSETTE UNIT, JRNU18GTPA4 , 4-WAY CASSETTE UNIT JRNU24GTPA4 , WIRELESS REMOTE FOR INDOOR UNITS , 4-WAY CASSETTE UNIT PANEL , Y-JOINT IDU , Y-JOINT ODU 2-UNIT , Dismantling, Installation, Gas charging , Nitrogen Bleeding and Pressure Testing for copper pipe of All indoor and Outdoor

7. **OEM Average Turnover (Last 3 Years):** 50 Lakh (s)
8. **Years of Past Experience Required for same/similar service** 3 Year (s)
9. **MSE Relaxation for Years of Experience and Turnover :** Yes
10. **Start up Relaxation for Years Of Experience and Turnover:** Yes
11. **Document required from seller:**
  - I. Experience Criteria,
  - II. Past Performance,
  - III. Bidder Turnover,
  - IV. Certificate Requested in ATC( Added Terms & Conditions)
  - V. OEM Authorization Certificate,
  - VI. OEM Annual Turnover,
  - VII. Compliance of BoQ specification
  - VIII. Supporting document:- \*In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be submitted for evaluation by the buyer
  - IX. **Past Performance : 50 %**(The vendor shall have executed similar work worth 50% of the bid value)
  - X. **Type of Bid :** Two-Stage bidding system( Technical & Financial bids)
  - XI. **Primary product category :** 4-WAY CASSETTE UNIT JRNU18GTPA4
  - XII. **Time allowed for Technical Clarifications during technical evaluation:** 2 Days
  - XIII. **Estimated Bid Value :** 40,00,000 (Forty Lakhs)
  - XIV. **Evaluation Method:** Total value wise evaluation
  - XV. **Arbitration Clause :** No
  - XVI. **Mediation Clause :** No

**XVII. EMD Detail:**

- Advisory Bank State Bank of India
- EMD Amount : 80000
- Advisory Bank State Bank of India
- Percentage (%) : 3.00
- Duration of BG required (Months): 14

12. **EMD EXEMPTION:** The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

13. EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary :**

Sr: Accounts Officer (Cash), O/o the Pr. Accountant General (A&E), Odisha, Bhubaneswar-751001

14. Bid splitting : Not applied.

15. **MII Purchase Preference :** Yes

16. Purchase Preference to MII sellers available up to price within  $L1+X\%20$

17. Maximum Percentage of Bid quantity for MII purchase preference: 50

18. Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement (Preference to Make-in-India) order 2017 date 16.09.2020 (as amended and applicable time to time): Yes, in compliance with the MII ORDER : DPIIT Order (as amended and applicable time to time)

19. **MSE Purchase Preference:** Yes

20. Purchase Preference to MSE OEMs available up to price within  $L1+X\%$ : 15

21. Maximum Percentage of Bid quantity for MSE purchase preference : 25

1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.

2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.

3. If the bidder is a DPIIT registered Start up, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.

4. If the bidder is a DPIIT registered Start up, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.

5. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery

acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

6. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid

document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

7. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No. F.1/ 4 / 2021- PPD dated

18.05.2023.OM\_No.1\_4\_2021\_PPD\_dated\_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

8. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 OM\_No.1\_4\_2021\_PPD\_dated\_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller invalidated as well as validated and approved by Buyer after evaluation of documents submitted.

9. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any

impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

10. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

**OUTDOOR UNIT TOP DISCHARGE-(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications, Specification Document, BOQ Detail Document : Attached**

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**Consignees/Reporting Officer and Quantity**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	2	45

**OUTDOOR UNIT TOP DISCHARGE-(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications, Specification Document, BOQ Detail Document : Attached**

**Consignees/Reporting Officer and Quantity**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	2	45

**4-WAY CASSETTE UNIT JRNU18GTPA4 : Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE	8	45

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		AT. SHREEVIHAR MARG, PENTHAKATA, PURI- 752002		
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**4-WAY CASSETTE UNIT JRNU24GTPA4: Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached.**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	19	45

**WIRELESS REMOTE FOR INDOOR UNITS: (Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications; Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI- 752002	27	45

**4-WAY CASSETTE UNIT PANEL:- Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion
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				Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	27	45

**Y-JOINT IDU: Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	25	45

**Y-JOINT ODU 2-UNIT- Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI-752002	2	45

**Dismantling, Installation, Gas-Charging, Nitrogen Bleeding And Pressure Testing For Copper Pipe Of All Indoor And Outdoor (Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

**Technical Specifications: Attached**

Sl. No.	Reporting Officer	Address	Quantity	Project completion
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8

				Days
1	Ashok Kumar Dehury	PRINCIPAL ACCOUNTANT GENERAL (A & E), ODISHA BRANCH OFFICE AT. SHREEVIHAR MARG, PENTHAKATA, PURI- 752002	64	45

### Buyer Added Bid Specific Terms and Conditions

#### 1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be  $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$ , subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

#### 2. Buyer Added Bid Specific ATC-Buyer Added text based ATC clauses

1. AVAILIBILTY OF OFFICE OF SERVICE PROVIDER: An office of the Service Provider must be located at Bhubaneswar/Puri of Odisha. Documentary Evidence to be Submitted.
2. In case of any complaint on functioning of the system, the service provider must attend the complain within 48 (Forty Eight) hours of intimation.
3. BIDDER FINANCIAL STANDING: The bidder should not be under liquidation, court receivership or similar proceedings, should not be Bankrupt. Bidder to upload undertaking to this effect with bid.
4. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
5. Every page should be Stamped and Signed.
6. Proof for Past Experience: Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the Invoice have been executed.
7. The Bidder must upload a valid civil licence.

8. Bidder should have relevant work experience in Central Government offices as well as other offices.

9. Dedicated /toll Free Telephone No. for Service Support: BIDDER/OEM must have Dedicated / toll Free Telephone No. for Service Support.

10. Bidder should visit the site before bidding and upload the design and day-to-day work plan for the execution of the work. Senior Accounts Officer (OM) of this office may be contacted in this regard. Bid of the Bidder without design & work plan may be rejected. The cost of visiting the site shall be borne by the bidder.

11. Penalty for Delay in completion of work: - In case of delay in completion of work beyond the stipulated period of 45 days from the date of issue of work order, a penalty shall be imposed at the rate of 0.5% of the Bid Value per week, subject to a maximum of 10% of the total Bid Value.

12. The office reserves the right to cancel the order at any time without assigning any reason thereof.

13. The installation work shall be in Branch Office, Puri with Warranty/Guaranty as per the OEM.

14. The Office will deduct Tax at Source (TDS) under section 194-c of the Income Tax Act, 1961 & TDS on GST amount.

15. The bidder shall submit the following declaration (separately) in the company/firm letter head, declaring that:

I. The bidder has not been blacklisted or debarred by any Central Government/State Government/ PSU/ Autonomous Body/ Statutory Authority as on the date of submission of bid.

II. The bidder's contract has not been terminated for default, non-performance, or breach of contractual obligations by any Government/ PSU/ Autonomous Body during the last three (3) years preceding the date of bid submission.

III. The bidder is not insolvent and has not been declared bankrupt or subjected to liquidation proceedings by any court or competent authority.

16. If any information submitted by the bidder is found to be false or incorrect at a later stage, the contract shall be liable to be terminated without assigning any reason.

17. Dispute Resolution:

I. Any dispute and or difference arising out of or relating to this service contract will be resolved through joint discussion of the authorised representatives of the concerned parties.

II. If any difference arises concerning this agreement, its interpretation on payment to be made there under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the Principal Accountant General (A&E), Odisha, Bhubaneswar to settle the dispute by Sole Arbitrator.

III. Any arbitration arising out of this contract will be regulated as per the provision of the Arbitration and Conciliation Act, 1996 and the amendments.

18. Legal Jurisdiction: Jurisdiction of Competent Courts/ High Courts at Bhubaneswar/Cuttack, Odisha only.

### **Disclaimer**

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer, is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATC and including the modification of technical specifications and / or terms and conditions governing the bid. All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly. If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, Buyer reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. . Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
2. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
3. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
4. Seeking experience from specific organization / department / institute only or from foreign / export experience.
6. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, PBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GTC.
13. Any ATC clause in contravention with GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1bidders.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work. Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window

provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

**All Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into**

**force by the Government of India. For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or**

**notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable. The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under: All notified and enforceable provisions of the new Labour Codes as mentioned herein above; and All operative provisions of the erstwhile Labour Laws until their complete substitution. All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law. This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace. However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.**

/This Bid is also governed by the General Terms and Conditions : In terms of GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

-----End -----

**Procedure for submission of bid documents in conformity to relevant rules under GFR-2017**

Two bid system (simultaneous receipt of separate technical and financial bids): For purchasing high value plant, machinery etc. of a complex and technical nature, bids may be obtained in two parts asunder:

- i Technical bid consisting of all technical details along with commercial terms and conditions; and
- ii Financial bid indicating item-wise price for the items mentioned in the technical bid.

The technical bid and the financial bid should be sealed by the bidder in separate covers duly super-scribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly super-scribed. The technical bids are to be opened by the purchasing Buyer at the **first instance** and evaluated by a competent committee or authority. **At the second stage** financial bids of only these technically acceptable offers should be opened after intimating them the date and time of opening the financial bid for further evaluation and ranking before awarding the contract

**Note:** The bidders must mention their mobile number and e-mail Id. For intimation of the date of opening the Financial bid.

- **Late Bids.** In the case of advertised tender enquiry or limited tender enquiry, late bids (i.e. bids received after the specified date and time for receipt of bids) will not be considered.
- **Maintenance Contract.** Depending on the cost and nature of the goods to be purchased, it may also be necessary to enter into maintenance contract(s) of suitable period either with the supplier of the goods or with any other competent firm, not necessarily the supplier of the subject goods. Such maintenance contracts are especially needed for sophisticated and costly equipment and machinery. It may, however, be kept in mind that the equipment or machinery is maintained free of charge by the supplier during its warranty period or such other extended periods as the contract terms may provide and the paid maintenance should commence only thereafter.

(13)

**Procedure for bid documents opening in conformity  
to relevant rules under GFR-2017**

The bids shall be opened in public and authorised representatives of the bidders shall be permitted to attend the bid opening.

i **Criteria for determining responsiveness** are to be taken into account for evaluating the bids such as: time of delivery. Performance/ efficiency/ environmental characteristics. the terms of payment and of guarantees in respect of the subject matter of procurement. price. cost of operating, maintaining and repairing etc.

ii Bidders shall not be permitted to alter or modify their bids after expiry of the deadline for receipt of bids.

iii Contract should ordinarily be awarded to the **lowest evaluated bidder** whose bid has been found to be responsive and who is eligible and qualified to perform the contract satisfactorily as per the terms and conditions incorporated in the corresponding bidding document. However, where the lowest acceptable bidder against ad-hoc requirement is not in a position to supply the full quantity required, the remaining quantity, as far as possible, be ordered from the next higher responsive bidder at the rates offered by the lowest responsive bidder.

iv **Rejection of all Bids is justified** when effective competition is lacking. all Bids and Proposals are not substantially responsive to the requirements of the Procurement Documents. the Bids'/Proposals' prices are substantially higher than the updated cost estimate or available budget; or none of the technical Proposals meets the minimum technical qualifying score

**Note:** The bidder must mention their mobile number and e-mail Id. for intimation of the date of opening of the bids.

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## **TECHNICAL SPECIFICATIONS VARIABLE REFRIGERANT FLOW AIR-CONDITIONING SYSTEM**

**TENDER NO.**

### **1. OBJECTIVE OF THE SPECIFICATION**

This specification is intended to cover the Supply, Installing, Testing, Commissioning and delivery of duly packed for transport to site, for Air-conditioning work as specified herein after for the proposed Building.

The scope of the specification also includes the complete erection, final check-up, testing and commissioning at the site of the air-conditioning equipments to be supplied under this specification.

### **2. GENERAL INFORMATION**

Purchaser has proposed to install the VRF air cooled type air-conditioning system for air-conditioning of the Office building

### **3. SCOPE OF WORK**

The scope of this Section comprises the Supply, installation, testing and commissioning of Variable Refrigerant flow (VRF) system with DC Inverter based Scroll Compressors and BLDC motor only. There shall not be any fixed speed compressor. The ODU shall be connectable to multiple indoor units as per specification. Outdoor unit shall be factory assembled weather proof casing constructed from heavy gauge mild steel panels & shall have all DC Inverter Scroll Compressor in each module.

#### **3.1 VARIABLE REFRIGERANT FLOW (VRF) SYSTEM**

##### **TYPE**

Units should be DC Inverter Technology based Variable Frequency Driven VRF air-conditioners with air-cooled outdoor units, which shall be capable of cooling application as per individual or season requirement suitable for operation on 380~415V, 3 Phase, 50 Hz AC electric supply.

The outdoor units shall consist of one/multiple modules with single circuit of refrigerant piping and multiple indoor units of various types & capacities. Each indoor unit should have capability to cool independently for the requirement of particular area & also as per seasonal weather changes.

The indoor unit on any circuit can be different type & capacity and also controlled individually.

##### **GENERAL**

Indoor units & outdoor units shall be factory assembled, tested and filled with first charge of R 410A refrigerant only before delivering at site & should be suitable for operation on 380V- 415V, 3 Phase, 50 Hz AC electric supply for outdoor unit and 220 ~ 240 V, 1 Phase, 50 Hz for Indoor unit.

Units should be air cooled type, DC Inverter Technology based variable frequency driven VRF type air conditioner consisting of outdoor units and multiple indoor units, each suitable to cool in summer.

All proposed outdoor unit should have minimum COP of 3.7 at 100% load condition respectively for Cooling as per following AHRI testing conditions.

Ambient Temp: 35 deg C DBT & 24 deg C WBT

Indoor Temp : 27 deg C DBT & 19 deg C WBT

The DC inverter technology based variable frequency driven VRF equipment should be capable enough, so that the refrigerant piping between indoor and outdoor unit shall be extendable up to 1000m with maximum height difference between outdoor & indoor unit of 110m & level difference between two indoor unit maximum up to 40m.

### **OUTDOOR UNIT**

The outdoor unit shall be a factory assembled unit housed in a sturdy weather proof casing constructed from rust-proofed mild steel panels coated with a baked enamel finish. The unit should be completely factory wired tested with all necessary controls. It should be Air Cooled type with Top Air discharge. It must have corrosion resistant chemical coating at factory only along with hydrophilic coating to shield from Salt, Sand, & other elements brought in by the air.

The System must have the following features:

- It should also be provided with duty cycling for DC inverter scroll compressors capable of changing the rotating speed of compressor by DC inverter controller to follow variation in cooling loads
- Each outdoor unit should consist of only Inverter Scroll Compressor.
- ODU units with constant compressor not acceptable.
- It should also be provided with duty cycling for multiple inverter compressor switching starting sequence for better stability and prolonging equipment life.
- All outdoor unit must have Pump-out and pump-in feature so that incase of failure, refrigerant can be accommodated in indoor and outdoor unit respectively.
- The unit shall be provided with its own microprocessor control panel.
- The outdoor unit must have the feature of Record running parameters of last 3 minutes before failure, for fault analysis & easy, faster trouble shooting.
- All outdoor unit must have the feature of auto recharging of refrigerant.
- All outdoor unit must have corrosion resistant chemical coating at factory only along with hydrophilic coating to shield from Salt, Sand, & other elements brought in by the air for better life.
- All outdoor unit should have Oil recovery system.
- The machine must have a sub cooling feature so that it prevents the flushing of refrigerant from long piping due to this effect thereby achieving energy savings.
- All outdoor unit should have Auto Backup function.
  - Offered outdoor units should deliver same cooling capacity even at higher ambient temperature of 39 deg C. No deration in cooling capacity at 39 Deg C Ambient Temperature.
  - System designed to operate from 342 V to 456 V
  - PCB cooling system should be reliable to operate up to 50 deg C ambient

- VRF system should have dual sensing technology for Temperature and Pressure.
- Smart Load control for Power saving which makes auto adjustment of refrigerant flow thru Evaporator coil as per ambient condition and inside load variation
- Surge protection from 342 V to 504 V
- Capable of operation up to 53 deg Celsius ambient temperature.
- Manufacturer must be OEM of its compressor, which is fitted in the outdoor unit.

#### **COMPRESSOR**

- The compressor shall be of highly efficient hermetic scroll type and equipped with DC INVERTER capable of variable frequency drive with capacity modulation. Manufacturer must be OEM of its compressor, which is fitted in the outdoor unit.

#### **REFRIGERANT CIRCUIT**

The refrigerant circuit shall include an accumulator, liquid and gas shut off valves and a solenoid valves.

All necessary safety devices shall be provided to ensure the safety operation of the system.

#### **SAFETY DEVICES**

The following safety devices shall be part of the outdoor unit;  
High Pressure Switch, Low Pressure Switch, Fan Motor Safety Thermostat, Inverter Overload Protector, Over Current Relay, Fusible Plugs, Fuses.

#### **OIL RECOVERY SYSTEM:**

Each unit shall be equipped, with an oil separator to ensure stable operation with long refrigerant piping.

## **INDOOR UNIT:**

### **GENERAL**

These units should be suitable for operation on 220V-240V, Single Phase, 50 Hz AC electric supply. These units shall have electronic control valves to control refrigerant flow rate in response to load variation in the room.

The address of IDU shall be set automatically in case of individual and group control.

The IDU shall be basically a 4 Way Cassette unit suitable for Ceiling suspended type mounting arrangement. Each unit shall have Cooling coil, Blower, Filter, BLDC Motor, inbuilt drain pump ( for Ceiling Concealed Units only) and accessories. All the IDUs installed to have individual Cordless/ Corded Remote controls as require.

Indoor unit shall have cleanable type filter to an integrally molded plastic frame. The filter shall be slide away type and neatly inserted.

It shall be possible to clean the filters either with compressed air or water.

The Cooling coil shall have Aluminum fins and copper tubes. The Fan section shall be dual suction, aerodynamically designed & balanced turbo, multi blade type blower to ensure low noise and vibration free operation and having multiple speed motor. The fan shall be direct driven type, mounted directly on motor shaft having support from housing.

The noise level for these unit should not exceed 40 db(A)±2.

### **Y-JOINTS**

Supply & installation of the Y- Joints separation refrigeration pipe joints and headers in the appropriate orientation to enable correct distribution of refrigerant. The distribution joints should be factory insulated with pre-formed section of Expanded polystyrene/Equivalent.

### **3.2 REFRIGERANT PIPING**

Refrigerant piping for the air-conditioning system shall be up to 19.1mm dia. of soft seamless copper tubes & for above 19.1 mm diameter the pipe material shall be of hard seamless copper tubes with pipes material being hard drawn copper pipe.

Before joining any copper pipe or fittings, its internals shall be thoroughly cleaned by passing a clean cloth via wire or cable through its entire length. The piping shall be continuously kept clean of dirt etc. while constructing the joints. Subsequently it shall be thoroughly blown out using nitrogen gas.

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After completion of installation of the refrigerant piping, the piping system shall be pressure tested using nitrogen gas at a suitable pressure as specify by OEM (Original Equipment Manufacturer). Pressure shall be maintained in the system for 48 hours. The system shall then be evacuated to a vacuum of not less than 700 mm Hg and held for minimum 24 hours.

The suction line pipe size and the liquid line pipe sizes shall be selected according to the manufacturer's specified diameter. All refrigerant pipes shall be properly supported and anchored to the building/structure using steel hangers, fastener, brackets and supports which shall be fixed to the building/structure by means of inserts or expansion shields or anchor fasteners of adequate size and number to support the load imposed thereon.

The refrigerant piping should be laid in core cut in the floors in such a way that it should not distort the interior of the room, wherever the refrigerant pipe has to be laid across the room, it should be laid in a concealed manner by making appropriate boxing arrangement matching with the interior of the room. All associated minor Civil Engineering works (like chasing on wall, ceiling & replastering and repainting etc.) related with the above items are included in the scope of work.

All exposed copper pipes have to be covered by 24 G GI sheet.

Entire liquid and suction refrigerant pipe lines including all fittings, valves and strainer bodies etc. Shall be insulated with 19mm/ 13 mm thick Nitrile rubber as specified in BOQ.

### **3.6 DRAIN PIPING**

CPVC /UPVC Condensate Drain Pipe in the drain point of Indoor Units shall be provided.

**4. Technical Data Sheet**

**VRF Outdoor Unit Technical Data Sheet ( to be filled during Technical Bid Submission ) :**

**A) VRF Outdoor Technical Data Sheet**

Details of Technical Requirement	To be filled up by Bidder
Model	
Cooling Capacity at AHRI Conditions (Outdoor Temp. 35 Deg C DBT & 24 Deg C WBT / Indoor Temp. 27 Deg C DBT & 19 Deg C WBT.)	
Cooling Capacity at 39 Deg C DBT & 24 Deg C WBT / Indoor Temp. 27 Deg C DBT & 19 Deg C WBT.)	
COP (AHRI Conditions) at 100% load	
Overall Dimension (w x d x h in mm)	
Net weight (kg)	
Type of Refrigerant	
Type of Expansion Valve	
Type of Compressor	
Make of compressor	
Compressor quantity	
Anti-Corrosion treatment to fin in addition to Hydrophilic coating at factory end (Yes/No)	
Maximum ambient Temperature at which Outdoor can function	

**B) VRF Indoor Unit Technical Data Sheet:**

<b>Details of Technical Requirement</b>	<b>To be filled up by Bidder</b>
Model	
Type of VRF Indoor	
Combination of Base Model	
Nominal Cooling Capacity (KW)	
Input Power (KW)	
Overall Dimension (w x d x h in mm)	
Net weight (kg)	
Sound pressure level (db A) (Min & Max)	
Air Flow (CFM) in high / med / Low	
Factory Fitted inbuilt Drain Pump (Yes/No)	

**Proforma for Item-wise Value to be submitted by the Bidder in Financial bid documents**

**Description of Work:** Supply of Flexi system Variable Refrigerent Flow modular type Inverter - Air conditioning system suitable for Heat Pump by Inverter driven capacity control for INVERTER SCROLL compressor complete with indoor and outdoor units with individual remote controller and etc., as per quantity given below i/c pre charged of R-410A/32A refrigerant gas complete with duly powder coated unit.

Sl. No	Description	Capacity	Quantity	Unit Price	Total price
<b>A. OUTDOOR UNIT</b>					
1	OUTDOOR UNIT TOP DISCHARGE	20HP	2		
2	OUTDOOR UNIT TOP DISCHARGE	12HP	2		
<b>B. INDOOR UNIT</b>					
<u>1</u>	4-WAY CASSETTE UNIT (JRNU18GTPA4)	1.5 TR	8		
<u>2</u>	4-WAY CASSETTE UNIT (JRNU24GTPA4)	2.0 TR	19		
<b>C. ACCESSORIES</b>					
<u>1</u>	WIRELESS REMOTE FOR INDOOR UNITS		Nos 27		
<u>2</u>	4-WAY CASSETTE UNIT PANEL		Nos 27		
<u>3</u>	Y-JOINT IDU		Nos 25		
<u>4</u>	Y-JOINT ODU ( 2-UNIT )		Nos 2		
<b>VRF LOW SIDE BOQ</b>					
1	Dismantling, Installation, Gas charging ,Nitrogen Bleeding & Pressure Testing for copper pipe of All indoor & Outdoor ( 20 HP-2 Nos,12 HP-2 )Nos & 27 Nos of Four-Way Cassette unit). All Supply & Installation work (Copper piping, Communication cable, drain pipe, gas charging R410 )	Per HP	64		

2	Transportation, Lifting & Shifting	-	LOT		
3	<b>Sub Total</b>				
4	GST				
5	Total Project Cost				

STRUCTURE OF ORGANIZATION

1.	Name & Address of the Bidder	
2.	Telephone/Mobile No. and e-mail	
3.	Legal status of the bidder (attach copies of original document the legal status):	
	a. Society registered under Societies Registration Act, 1860	
	b. Proprietary Firm	
	c. Partnership Firm	
	d. Limited Company/Corporation	
	e. If any other, please specify on the right side.	
4.	Furnish the particulars of registration with various Government authorities, such as GST, ESI, EPF, and any other applicable statutory bodies (attach self-attested copies of relevant certificates).	
	a. GST Registration	
	b. ESI Registration	
	c. EPF Registration	
	d. PAN/TAN	
	e. Any other	
5.	Names and Titles of Directors & Officers with designation to be concerned with this work.	
6.	Name, Designation, Phone number and other details of individuals, authorized to act on behalf of the organization.	
7.	Have the firm ever been required to suspend operations for a continuous period exceeding one month after commencement of any project? If yes, please provide the name of the project, duration of suspension, and reasons for such suspension.	
8.	Has the bidder or any constituent partner in the case of partnership firm, ever abandoned the awarded work before its completion? If yes, give the name of the project and reasons for abandonment.	
9.	Has the bidder or any constituent partner in case of partnership firm, even been debarred/blacklisted for tendering in any organization at any time? If so, give details.	
10.	Has the bidder or any constituent partner in the case of the partnership firm, ever been convicted by a court of law? If so, give details.	

The information provided above is true and correct. If, at any stage, the information is found to be false or incorrect, the buyer shall be entitled to take such action as deemed appropriate and applicable under the circumstances.

Signature of the Bidder

Name & Address with stamp

CERTIFICATE OF EXPERIENCE

GeM Bid No. \_\_\_\_\_

Name of the Service \_\_\_\_\_

I/ We M/s \_\_\_\_\_ hereby declare and certify that: -

1. Our agency has been in business for Data Entry Services for Last \_\_\_ years with similar govt Office / PSUs/Autonomous bodies/Other) for which relevant supporting documents are submitted (at least for last 3 years). The list is as follows: -

Sl. No.	Government Office/PSUs/Autonomous Bodies/Other	No of Employees	Duration of contract		Contact details of the Government Office/PSUs/Autonomous Bodies/Other. (Contact person, address and telephone number)
			From	To	

2. We will be able to deploy the required manpower as per the tender term and within 7 days of award of contract.
3. We fulfil all the statutory requirements of the relevant labour laws in India.
4. We agree to all the terms and conditions of the GeM bid and the additional terms and conditions.

Signature of the bidder

Name & Address with stamp