



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्गापुर, असम
Oil India Limited
(A Government of India Enterprise) Registered Office: Dibrugarh, Assam

Oil India Limited (RP)
2-A. District Shopping Centre
Saraswati Nagar, Basni
Jodhpur-342005,
Phone- 0291 -2729-472,
0291 -2729-466
Fax: 0291-2727050
Email: munin_konwar@oilindia.in
erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : SJ18135P16 **Dated :** 10.08.2015

Tender Fee : INR 1,000.00

Bid Security Amount : INR 30,000.00

Bid Bond Validity : Bid Bond should be valid up to 180 days more than the bid validity.

Bid Validity : Bid should be valid for 120 days from bid closing date.

Bidding Type : COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in the e-portal

Bid Opening on : -do-

Performance Security : Applicable (@10% of the PO value)

Integrity Pact : Not Applicable

OIL, Rajasthan Project invites Bids for **Layout planning, engineering, supply, transportation, installation, testing and commissioning of Variable Refrigerant Volume (VRV) / Variable Refrigerant Flow (VRF) system complete for office halls at ground, first & second floor including one number electrical panel at terrace, power cables and accessories in OILHOUSE, the office building of Oil India Limited at Jodhpur** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/RP/GLOBAL/E-01/2005 for E-Procurement (Both ICB & LCB Tenders). The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents

The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under **Technical RFX**.

The tender will be governed by:

- General Terms & Conditions for e-Procurement as per Booklet No. MM/RP/GLOBAL/E-01/2005 for E-Procurement.
- Technical specifications and Quantity, **BRC/BEC** and any other notes as per **Annexure – IA**.
- The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.

- d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
- e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- f) Bidder are advised to fill up the Technical bid check list (**Annexure EEE**) and Response sheet (**Annexure FFF**) & Bank Details (**Annexure GGG**) as per given format in Technical RFX -> External Area -> Tender Documents. The above filled up document to be uploaded in the **Technical RFX** Response.
- g) All corrigenda, addenda, amendments, time extension, clarifications etc. to the tender will be hoisted on OIL's website (www.oil-india.com) and in the e-portal (<https://etenders.srm.oilindia.in/irj/portal>) only and no separate notification shall be issued in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep themselves updated.

Special Note:

1.0 General Qualification Criteria:

In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (**documentary evidence to be provided along with the bid in Technical RFX -> External Area -> Tender Documents**) as on the Bid Closing Date:

- a) Bidder should have experience of successfully executing similar order for at least INR **9.00 Lakhs** during last 3 years as on the Bid Closing Date.

Note: Similar nature of work means AIRCONDITIONING works at any single- storied / multi-storied office building / any prestigious building / hospital / commercial complex / multi storied housing complex by VRV / VRF system.

- b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than **INR 30.00 Lakhs**.

2.0 Application showing full address/email address with Tender Fee (Non-refundable) of INR 1,000.00 in favour of OIL INDIA LIMITED and payable at Jodhpur is to be submitted to Chief Manager (M&C), Oil India Limited, Rajasthan Project, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan. Application shall be accepted only upto one week prior to Bid Closing date (or as amended in e-portal). The envelope containing the application for participation should clearly indicate "REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO. SJ18135P16" for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, USER ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using "Guest

Login” provided in the e-Procurement portal. The link to e-Procurement portal has also been provided through OIL’s web site www.oil-india.com.

NOTE:

a) Tender Fee may also be paid online upto one week prior to the bid closing date (or as amended in e-portal).

NOTE: PSUs and SSI units are provided USER_ID and initial PASSWORD Free of Cost (as per govt guidelines), however they have to apply to OIL's designated office to issue USER_ID and initial PASSWORD before the last date of apply.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL’s e-Procurement site only except following document/materials which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date** to **Chief Manager (M&C), Oil India Limited, Rajasthan Project, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan** on or before the Bid Closing Date and Time mentioned in the Tender.

a) **Original Bid Security**

b) **Detailed Catalogue (if any)**

c) **Any other document required to be submitted in original as per tender requirement**

All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in duplicate.

4.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

5.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.

6.0 Bid must be submitted electronically only through OIL’s e-procurement portal. Bid submitted in any other form will be rejected.

7.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-IA**. However, if any of the **Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per Annexure-IA)** contradict the **Clauses of the tender and / or “General Terms & Conditions” as per Booklet No. MM/RP/GLOBAL/E-01/2005 for E-Procurement (Both ICB & LCB Tenders)** elsewhere, those in the **BEC / BRC shall prevail**.

7.1 The following points are deemed as “non-negotiable” and offer shall be rejected straightaway without seeking clarification in case of the following:

- i. **Validity of bid shorter than validity indicated in the tender.**
- ii. **Original Bid Security not received within the stipulated date and time mentioned in the tender.**
- iii. **Bid security with (a) Validity shorter than the validity indicated in tender and/or (b) Bid security amount lesser than the amount indicated in the tender.**

8.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

9.0 All the Bids must be Digitally Signed using eClass 3 digital certificate (e-commerce application) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

10.0 BIDDERS ARE REQUIRED TO QUOTE WITH MINIMUM VALIDITY OF 120 DAYS FROM THE BID CLOSING DATE AS PER NIT REQUIREMENT. BIDS WITH LESSER VALIDITY SHALL BE REJECTED.

11.0 Performance Security: Successful bidder will be required to furnish a Performance Security @10% of the order value. For details about performance security and exemption for submission of the same, please refer Clause No. 10.0 of General Terms and Conditions vide MM/RP/GLOBAL/E-01/2005 for E-Procurement ICB Tenders. The Performance Security must be valid for a period of 12 months from the date of commissioning of the equipment at site or 18 months from the date of dispatch/shipment whichever is earlier. The bidder should confirm submission of the requisite Performance security (in the event of order) in their offer itself, failing which the offer will be rejected.

12.0 You are required to submit original Bid Security at the office of Chief Manager (M&C), Oil India Limited, Rajasthan Project, 02-A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan, India on or before the Bid Closing Date and Time of the technical bid. The bid security should be of amount INR 30,000.00 in conformity with OIL's prescribed format as Bank Guarantee enclosed with the booklet MM/RP/GLOBAL/E-01/2005 or a Bank Draft/Cashier cheque in favour of OIL INDIA LIMITED and payable at Jodhpur, Rajasthan (India).

13.0 For details about Bid Security and the eligibility for exemption of bid security, please refer to Clause 9.0 under Section A of General Terms and conditions for Global Tender vide booklet MM/RP/GLOBAL/E-01/2005. Also please refer Annexure-VII vide MM/RP/GLOBAL/E-01/2005 to obtain the format for Bank Guarantee. A scanned copy of the bid security should be uploaded alongwith the offer for our information. If the bid security in ORIGINAL of above mentioned amount is not received within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration. The bidders who are exempted from submitting Bid Security should attach documentary evidence alongwith their technical bid. The Bank Guarantee/LC towards Bid Security shall remain valid for 180 days more than the Bid Validity i.e. 300 days validity is required from the date of Bid opening.

14.0 Benefits to Micro & Small Enterprises (MSEs) as per prevailing Govt guidelines as applicable on B.C date shall be given. MSEs who are interested in availing the benefits will upload with their offer proof of their being MSE registered for the item tendered. The MSE are also required to upload scanned copies of relevant documents indicating details of registration alongwith validity, name of the registering organization and details of the item, ownership etc., failing which, their offer may not be liable for consideration of benefits to MSEs.

NOTE: Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

Yours Faithfully

Sd-

(MUNIN KONWAR)

DY. MANAGER (MATERIALS & CONTRACTS)

FOR : CHIEF MANAGER (M&C)

FOR: EXECUTIVE DIRECTOR (RP)



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्लुवागंज, असम
Oil India Limited
(A Government of India Enterprise) Registered Office: Durluaganj, Assam

Oil India Limited (RP)
2-A. District Shopping Centre
Saraswati Nagar, Basni
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Phone- 0291 -2729-472,
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erp_mm@oilindia.in

ANNEXURE-IA

Tender No. & Date : SJI8135P16 Dated 10.08.2015

Bidding Type : Single Bid (Composite Bid)

Bid Closing on : As mentioned in e-portal

Bid Opening on : As mentioned in e-portal

OIL INDIA LIMITED (Rajasthan Project) invites Indigenous Bids for items detailed below:

TECHNICAL SPECIFICATIONS WITH QUANTITY:

SL. NO. MAT. CODE	MATERIAL DESCRIPTION	QUANTITY	UOM
10 0C000007	SUPPLY OF VARIABLE REFRIGERANT VOLUME (VRV)/ VARIABLE REFRIGERANT FLOW (VRF) SYSTEM COMPLETE FOR OFFICE HALL	1	NO
20	INSTALLATION & COMMISSIONING OF VRV/VRF SYSTEM UNDER SL. NO. 10 ABOVE	1	AU

1.0 SCOPE OF WORK:

Layout planning, engineering, supply, transportation, installation, testing and commissioning of Variable Refrigerant Volume (VRV) / Variable Refrigerant Flow (VRF) system complete for office halls at ground, first & second floor including one number electrical panel at terrace, power cables and accessories in OILHOUSE, the office building of Oil India Limited at Jodhpur.

The scope of work shall include but not limited to the following:

i) Layout planning of VRV / VRF system complete for the office halls of all the three floors as stated above.

ii) Supply, installation & commissioning of outdoor units at the terrace of the building.

iii) Supply, installation & commissioning of indoor units at the existing false ceilings of the three floors.

iv) Supply, installation & commissioning of an 415 V electrical panel with suitable capacity bus bars & 4 pole MCCB incomer, outgoing isolators for feeding power to the outdoor units with earthing system complete. The panel shall be equipped with earth leakage protection system & shall have at least 3 nos. spare feeders (capacity to be approved by OIL at the time of shop drawing approval).

v) Supply, installation & commissioning of 4 core power cables of suitable size as required.

vi) Supply, installation & commissioning of GI drain pipes (for water) from indoor cassette units to the existing GI drain pipes above false ceiling at each floor.

vii) Supply, installation & commissioning of suitably sized power supply cables in PVC conduits from the indoor cassette units to the existing electrical distribution boxes / boards at the electrical shaft in each floor.

viii) Supply, installation & commissioning of communication cables between indoor & outdoor units.

ix) Supply, installation & commissioning of copper refrigerant pipes (as per Layout planning), Y-joints as required.

As the outdoor units shall be installed at the terrace & indoor units at each floor, the refrigerant Cu pipes connecting the outdoor & indoor units shall run vertically through the existing A.C. shaft or through any suitable route. Also horizontal run of the refrigerant Cu pipes shall be at the terrace & above the ceiling at each floor. The horizontal run at the terrace shall be in covered perforated trays & that above the ceiling be fixed suitably to the true ceiling.

x) The successful bidder shall make his own arrangement for storing equipments / materials. Safe shifting of all the equipments & materials to the place of installation (e.g. terrace & individual floors) shall also under the scope of the successful bidder.

xi) OIL shall not be held responsible for loss of any item at site during the period execution of works.

xii) All the equipments & materials offered including all accessories must be new and in unused condition. No reconstructed or rebuilt equipments / materials / accessories shall be acceptable.

xiii) Civil works :

“ Concrete foundation works for outdoor units, LT panel.

“ Installation of perforated trays along the run of refrigerant Cu-pipes.

“ Installation of outdoor units on the MS C-channels (to be fixed on concrete foundation) with vibration dampeners.

“ Installation of Indoor cassette units at the false ceiling (recessed type) & fixing the same to the true ceiling at each floor with fasteners & supports.

“ Cutting of false ceiling suitably for the cassette units.

“ Dismantling if T/L fixtures, CFL light fixtures, diffusers etc. & re-fitting at the same place or at different place as approved by the engineer-in-charge.

“ Repairing of ceiling which may arise while executing the works (it may include damage to the GI supports for ceiling, damage to the Gypsum board & its painting). Also replacement of any other damaged item if any, shall be included in the scope of the successful bidder.

“ Making opening in walls / floors / ceilings for taking out cables / pipings etc., and making them good.

“ Making openings / chipping in walls / floors / ceilings for grouting supports.

xiv) To execute all incidental work including supply / delivery of all equipments and materials at site required for complete execution of the works.

xv) To perform routine test, pressure test & commissioning of complete system at site.

xvi) To execute performance test of complete system at site as stated elsewhere in this Tender Documents.

xvii) Modification of existing AC ducts

2.0 TECHNICAL SPECIFICATION:

VARIABLE REFRIGERANT FLOW (VRF) / VARIABLE REFRIGERANT VOLUME (VRV) UNITS

2.1 General:

It shall be air cooled, split type Variable Refrigerant Volume (VRV) / Variable Refrigerant Flow (VRF) type air conditioning units consisting of outdoor unit(s) and multiple indoor units, each suitable for cooling.

2.2 Outdoor Units:

The outdoor unit shall be a factory assembled unit housed in a sturdy weather proof casing constructed from rust-proof mild steel panels coated with a baked enamel finish. The outdoor unit shall have a combination of digital / inverter and fixed scroll compressors and be able to operate even in case of breakdown of one of compressors. The noise level shall not be more than 60 dB(A) at normal operation measured horizontally 1m away and 1.5m above ground. The outdoor unit shall be modular in Layout planning.

2.3 Compressor:

The compressor shall be highly efficient hermetic digital scroll capable of capacity modulation by time averaging method or inverter scroll compressors with capacity modulation by speed variation.

2.4 SINGLE PHASE PREVENTERS:

Single phase preventers for outdoor units shall have to be provided. Single phase preventers shall act when the supply voltage drops down to 90% of the rated voltage or on failure of one or more phases.

2.5 Indoor Unit:

The indoor unit shall be recess type. It shall have electronic control valve to control refrigerant flow rate in response to load variations. The fan shall be of the dual suction multi blade type and statically and dynamically balanced to ensure low noise and vibration free operation. Cassette type unit should be with inbuilt drain pump. The unit shall be with pre-filter, fan section & DX coil section. The housing of unit shall be light weight powder coated galvanized steel. The unit shall be perfectly concealed in overhead boxing. Noise level should not be more than 35 dB at low speed. The cooling coil shall be of seamless copper tubes and shall have continuous copper / aluminum fins.

The tubes shall be staggered in the direction of airflow. The fins shall be uniformly bonded to the tubes by mechanical expansion of the tubes. The coil shall be tested against leaks. Unit shall have cleanable type filter of resin net (with mold resistant) fixed to an integrally moulded plastic frame. The filter should be slide away type but neatly inserted.

The filter shall be preferable with ionizer to inhibit the spread of bacteria or virus. The indoor unit shall have an electronic expansion valve to control refrigerant flow rate in response to load variations. The computerized PID control shall be used to maintain a correct room temperature. Each unit has to be provided with microprocessor thermostat for cooling. Each unit shall be with wireless remote controller LCD type. The LCD remote controller shall memorize the latest malfunction code for easy maintenance.

2.6 Refrigerant Piping:

All refrigerant piping for the air conditioning system shall be constructed from hard drawn seamless copper refrigerant pipes with copper fittings and silver-soldered joints. The refrigerant piping arrangements shall be in accordance with good practice within the air conditioning industry and shall include expansion valves, charging connections, suction line insulation and all other items normally forming part of proper refrigerant circuit. The suction line pipe size and the liquid line pipe size shall be selected according to the manufacturer's specified outside diameter. All refrigerant pipes shall be properly supported and anchored to the building structure using steel hangers, slotted angle tray, anchors, brackets and supports which shall be fixed to the building structure by means of inserts or expansion shields of adequate size and number to support the load imposed thereon.

2.7 Refrigerant Pipe Insulation:

The whole of the liquid and suction refrigerant lines including all fittings, valves and strainer bodies, etc shall be insulated with 19 mm / 13 mm thick chemically cross linked cell polyethylene foam FR-XPE fire retardant insulation. The joints shall be properly sealed with synthetic glue to ensure proper bonding of the ends. Suitable mechanical supports shall have to be provided for the insulation covered refrigerant piping.

The OD & wall thickness of copper refrigerant piping shall be as follows:

- a) All refrigerant pipes with outside dia equal to & below 19.1 mm shall be with minimum wall thickness of 1.0 mm.
- b) All refrigerant pipes with outside dia above 19.1 mm shall be with minimum wall thickness of 1.2 mm.

2.8 Heat Exchanger:

The heat exchanger shall be constructed with copper tubes mechanically bonded to aluminium fins to form a cross fin coil. The copper / aluminium fins shall be covered by anticorrosion resin film.

2.9 Electrical works :

~ The Electrical panel shall have 300 A capacity Bus bar.

~ Incomer: 250 A MCCB with CBCT & ELR, O/C & E/F protection, OLR (OLR shall be provided with a three element, positive acting ambient temperature compensated time lagged hand reset type thermal over load relay with adjustable setting. Hand-reset button shall be flush with the front door for resetting with starter compartment door closed)

~ Outgoing feeders with isolators: 6 Nos (4 nos. 100 A & 2 Nos. 60 A)

~ Trip indication with reset

~ Indicating lights for 3 phases, flush mounted 90 mm X 90 mm size 0.1 accuracy Voltmeter & Ammeter

~ All control wiring shall be carried out by using 650/1100 volts FR insulated copper conductor wires in wire trays or in conduit. Minimum size of control wiring shall be 2.5 sq.mm. FR insulated copper conductor wires.

~ Cabling / Wiring

All power wiring shall be carried out with 650/1100 volts grade PVC insulated, armored, overall, PVC sheathed aluminium conductor cables conforming to IS:1554 (part-I) -1988. Cables shall be sized for starting current and by applying proper de-rating factor. Power cables for indoor units from distribution boxes shall be Minimum size of conductor for power wiring shall be 4 sq.mm. 650/1100 volts grade PVC insulated aluminium conductor wires in conduit.

3.0 Location of Works:

OIL HOUSE ,02- A ,SARASWATI NAGAR ,DISTRICT SHOPPING CENTRE ,JODHPUR

4.0 GENERAL: SITE DETAIL:

i) The site of work, OILHOUSE, the office building is located at Plot No. 2A, Saraswati Nagar, Jodhpur, Rajasthan. The office building has already been occupied & the office is functioning normally.

ii) The office building has four floors, ground, first, second & the basement.

iii) The space at ground, first, second floors are segregated into cabins & office hall. In the basement the following equipments are installed:

~ The electrical panels

~ Stand-by DG set

~ transformer

~ 11 kV HT panel & LT panels

~ Central UPS system etc.

5.0 Special terms and conditions:

i) The proposed VRV / VRF system shall be installed at the office hall area at ground, first, second floors.

ii) Capacity of outdoor unit(s) & total number of indoor units shall be as under:

~ Total Capacity of outdoor unit(s) : 48 to 56 HP

~ Total no of indoor units to be installed (for all the 3 floors) : 25 Nos. (minimum)

iii) Sketch of all floors to be air conditioned are enclosed (uploaded in e-tender portal alongwith the tender documents). Details are as under :

~ SPACE MEANT TO BE COOLED BY INSTALLING INDOOR CASSETTEE UNITS AT GROUND FLOOR AREA = 240 SQ. MTRS. & HEIGHT = 2.43 MTRS

“ SPACE MEANT TO BE COOLED BY INSTALLING INDOOR CASSETTEE UNITS AT FIRST FLOOR AREA = 280 SQ. MTRS. & HEIGHT = 2.43 MTRS

“ SPACE MEANT TO BE COOLED BY INSTALLING INDOOR CASSETTEE UNITS AT SECOND FLOOR AREA = 280 SQ. MTRS. & HEIGHT = 2.43 MTRS

iv) The VRV / VRF system under the scope of this tender is to be installed & commissioned for the earmarked Office Hall at all the three floors. The Office Halls are enclosed by calcium silicate partition walls at the sides & gypsum board ceiling and vitrified tiles at the floors.

The detail of the Office Halls at the three floors are as under :

Ground floor :

Floors Hall surface area : 240 Sq.mtr.

Hall Lighting load : 2kW

Hall occupancy : 22 persons

Clearance from floor to false ceiling : 2.43 mtrs.

Clearance from false ceiling to true ceiling / concrete ceiling : 0.92 mtrs

Height of each floor (from floor to true ceiling / concrete ceiling): 3.35 mtrs.

First floor :

Floors Hall surface area : 280 Sq.mtr.

Hall Lighting load : 2kW

Hall occupancy : 18 persons

Clearance from floor to false ceiling : 2.43 mtrs.

Clearance from false ceiling to true ceiling / concrete ceiling : 0.92 mtrs

Height of each floor (from floor to true ceiling / concrete ceiling): 3.35 mtrs.

Second floor :

Floors Hall surface area : 280 Sq.mtr.

Hall Lighting load : 2kW

Hall occupancy : 22 persons

Clearance from floor to false ceiling : 2.43 mtrs.

Clearance from false ceiling to true ceiling / concrete ceiling : 0.92 mtrs

Height of each floor (from floor to true ceiling / concrete ceiling): 3.35 mtrs.

v) The exiting A.C. shaft (from ground floor through to the terrace) is currently occupied by refrigerant pipes & air ducts : @ 70 to 80%.

vi) Gypsum board false ceiling is being supported / hung by GI channels.

vii) Tube light fixtures / CFL light fixtures / Supply & return air diffusers are installed at the false ceiling.

viii) During execution of the works our office will be operational as per OIL& routine.

ix) The intending bidder shall be deemed to have visited the site and collect data / information & familiarize himself thoroughly with the site conditions before submitting the bid. Non familiarity with the site conditions will not be considered a reason either for

extra claims or for not carrying out the work in strict conformity with the approved drawings and specifications.

x) The materials, Layout planning and workmanship shall satisfy the relevant Indian Standards, the job specifications contained herein & codes referred to. Where the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any Standard/ Specifications/ Codes of practice for detailed specifications covering any part of the work covered in this tender, the instructions/directions of Engineer-in-Charge (Electrical) will be binding on the successful bidder.

xi) The successful bidder shall arrange all materials, tools & tackles etc. for execution of the works. The quoted rates shall be deemed to include the cost against the same. However, power supply requirements during execution of works would be provided by OIL.

xii) In case any activity though specifically not covered in Tender Documents but the same is necessary to complete the works the successful bidder shall execute the works with no extra cost to OIL.

6.0 BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)

A] BID REJECTION CRITERIA (BRC):

The bids shall conform to the Technical Specifications, Scope of Work and Terms and Conditions given in the Tender documents. Bids will be rejected in case it does not conform to the required parameters stipulated in the tender document.

The bidder shall have to meet the following requirements without which the offers shall be considered as non-responsive and rejected.

A.1 TECHNICAL:

(i) Bidder should be an OEM or authorized dealer of VRV / VRF system.

(ii) If the bidder is an authorized dealer then , documentary evidence in this regard from the OEM must be provided along with the Bid failing which their offer will be rejected.

(iii) If the bidder is an authorized dealer of OEM for VRV / VRF system then they must purchase the VRV / VRF system from OEM. The Compliance Statement **APPENDIX – II** should be duly filled up and should form a part of Technical Bid.

(iv) The bidders should have experience of successfully executing similar order for at least INR 9.00 Lakhs during last 3 years as on the Bid Closing date

Note: Similar nature of work means AIRCONDITIONING works at any single- storied / multi-storied office building / any prestigious building / hospital / commercial complex / multi . storied housing complex by VRV / VRF system.

(v) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than INR 30.00 Lakh.

(vi) The bidder must have experience of Layout planning installation, testing and commissioning of a VRV / VRF system of minimum capacity 30 HP at one place.

(vii) Following DOCUMENTS MUST BE SUBMITTED:

ii) Proof for claim as an authorized dealer of OEM

iii) Experience of execution of similar works as stated above

iv) Financial documents against annual turn over

A.2 OTHER THAN TECHNICAL

(i) Bidder have to submit both the Technical Bid (Un-priced) and Commercial Bid (Priced) through electronic form in the OIL's e-Tender portal within the Bid closing date and time stipulated in the e-Tender.

(ii) The Technical Bid (Un-priced) is to be submitted as per scope of work and technical specification of the tender and the Commercial Bid (Priced) as per the online commercial bid format.

(iii) All the Bids must be Digitally Signed using %Class 3+ digital certificate (*e-commerce application*) only as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than %Class 3+ digital certificate, will be rejected.

(iv) Bidders are required to quote with minimum validity of 120 days from the Bid Closing date as per NIT requirements. Bids with lesser validity shall be rejected.

(v) Bidders are required to submit original Bid Security at the office of Chief Manager (M&C), Oil India Limited, Rajasthan Project, 02-A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan, India on or before the Bid Closing Date and Time. The bid security should be of amount **Rs 30,000.00** in conformity with OIL's prescribed format as Bank Guarantee enclosed with the booklet MM/RP/GLOBAL/E-01/2005 or a Bank Draft/Cashier cheque in favour of OIL.

For details about Bid Security and the eligibility for exemption of bid security, please refer to Clause 9.0 under Section A of General Terms and conditions for Global Tender vide booklet MM/RP/GLOBAL/E-01/2005 uploaded in the Technical RFX area. Also please refer Annexure-VII vide MM/RP/GLOBAL/E-01/2005 to obtain the format for Bank Guarantee. A scanned copy of the bid security is to be uploaded alongwith the offer for our information. **If the bid security in ORIGINAL of above mentioned amount is not received within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.** The bidders who are exempted from submitting Bid Security should attach/upload documentary evidence alongwith their bid in the Technical RFX -> External Area -> Tender Documents. The Bank Guarantee/LC towards Bid Security shall remain valid for 180 days more than the Bid Validity i.e. 300 days validity is required from the date of Bid opening.

(vi) Performance Security: Successful bidder will be required to furnish a Performance Security @10% of the order value. For details about performance security and exemption for submission of the same, please refer Clause No. 10.0 of General Terms and Conditions vide MM/RP/GLOBAL/E-01/2005 for E-Procurement ICB/LCB Tenders. The Performance Security shall be valid for 12 months from the date of commissioning or 18 months from the date of despatch, whichever concludes earlier. The bidder should confirm submission of the requisite Performance security (in the event of order) in their offer itself, failing which the offer will be rejected.

B] BID EVALUATION CRITERIA (BEC)

The bids conforming to Scope of Work, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria will be considered for further evaluation as per Bid Evaluation Criteria.

(i) For evaluation of bids, Layout planning, engineering, supply, transportation, installation, testing and commissioning of one number of Variable Refrigerant Volume (VRV) / Variable Refrigerant Flow (VRF) system complete for office halls will be considered. Comparison of offers will be done on Total F.O.R Oil India Limited's Office Building at Jodhpur (OILHOUSE) basis as under:

- (A) Total Material Cost for 1 No of the Item
- (B) Packing and Forwarding Charges,
- (C) Total Ex-works value, (A + B) above
- (D) Excise Duty as applicable on (C) above (Please indicate applicable rate of Tax)
- (E) Sales Tax as applicable on (C + D) above (Please indicate applicable rate of Tax)
- (F) Total FOR Manufacturing station Value, (C + D +E) above
- (G) Road Transportation charges including loading and unloading of VRV/VRF system at OILHOUSE
- (H) Insurance charges, if any
- (I) Installation/Commissioning Charges including service tax
- (J) Inspection/Testing Charges, if any
- (K) Total value (F+ G + H+ I + J)

(ii) While bidders may quote for either or both of the Digital and Inverter Technology the evaluation will be done for each type of technology and the economically competitive option will be selected.

(iii) To evaluate the inter-se-ranking of the offers, Rajasthan Entry Tax on purchase value will be loaded as per prevailing Govt. of Rajasthan guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.

(iv) Installation /Commissioning charges should be quoted separately which shall be considered for evaluation of offers. These charges should include amongst others to and fro fares, boarding /lodging and other expenses of the Commissioning Engineers during their stay in Rajasthan. Bidder should confirm about installation/commissioning in their Bid. Inspection/Testing charges, if any, shall be quoted separately which shall be considered for evaluation of offers.

(v) If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amount in words shall prevail and will be adopted for evaluation.

(vi) To ascertain the substantial responsiveness of the bid, OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in total must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

7.0 STANDARD NOTES:

7.1 Materials to be supplied hereunder shall be new, unused, of recent make, of best quality & workmanship and shall be guaranteed by the seller against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the seller shall be replaced immediately by the supplier at the supplier's expense at no extra cost to OIL.

7.2. In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have submitted the bids on or before the original B.C. date shall not be permitted to revise their quotation.

7.3 The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

7.4 Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global E-Tender vide MM/RP/GLOBAL/E-01/2005. However, if any of the Clauses of this tender document contradict the Clauses of the booklet MM/RP/GLOBAL/E-01/2005 elsewhere, those in this tender document shall prevail.

8.0 TIME SCHEDULE

The time schedule for complete execution of work shall be 120 days from the date of issue of Letter Of Award. The works shall be executed strictly as per the time schedule.

9.0 TERMS OF PAYMENT

Following shall be the terms of payments for the subject works:-

- a) 70% of material cost on receipt of material at site along with test report.
- b) 30% of material cost on successful installation, testing, commissioning & handover to OIL.
- C] Installation & commissioning charges:
100% of installation & commissioning charges on successful installation, testing, commissioning of the VRV / VRF system complete.

10.0 Testing

Certificates for type tests for the outdoor & indoor VRV / VRF units and that for the refrigerant Cu-piping shall have to be furnished with the supplied items.

One set of VRF system shall be tested at manufacturers work at simulated ambient conditions of 48°C at contractor's cost to ensure smooth operation of system at high ambient.

11.0 Painting

Package units shall be factory finished with durable alkyd spray enamel. Shop coats of paint that have become marred during shipment or erection shall be cleaned off with mineral spirits, then coated with enamel paint to match the finish over the adjoining shop-painted surface.

12.0 Miscellaneous: The successful bidder shall have to carry out the following works:

- a) Necessary vacuuming, pressure testing, gas charging (by refrigerant) as a part of commissioning of the system.
- b) Necessary concrete pedestals with vibration dampeners for the outdoor units as approved by the engineer-in-charge from OIL.
- c) Installation of cable trays with covers for refrigerant pipes, cable trays for power cables, PVC conduits for communication cables & power cables for indoor units, installation of suitable GI drain pipes with necessary flexible pieces & all nuts, bolts, fasteners and any other hardware materials.
- d) Continuous purge system with automatic purging of non-condensable gases/refrigerant

13.0 DRAWING APPROVAL

The contractor will submit 2 sets of working drawings within 20 days from the date of award of work indicating detailed layouts for approval. The works at site shall be started only after approval of drawings from OIL. The drawing must include the layout for:

- i) Outdoor units & Electrical panel at terrace
- ii) Indoor units / cassettes at the false ceiling at each floor
- iii) Electrical wiring layout, & single line diagram including that for communication cables
- iv) Refrigerant Cu-pipe layout drawings
- v) Drain pipe layout drawings
- vi) Foundation Drawing for all equipments

14.0 COMPLETION DOCUMENTS

The contractor shall submit three sets / copies of as built drawings to the owner after completion of the work. Additionally, the following documents shall have to be submitted by the successful bidder :

- a) Operation & Maintenance Manuals for all equipments.
- b) Manufacturers test report & data sheets for equipments.

15.0 CLEAN UP WORKS AT SITE

During execution of works, the contractor shall at all times keep the working and storage areas free from waste or rubbish. On completion of erection he shall remove all temporary structures, debris and leave the premises clean to the full satisfaction of OIL.

16.0 INSURANCE : The successful bidder shall arrange insurance to cover :

- i) Transit insurance of all the equipments / materials from manufacturer's works to the site of works.
- ii) All risks in respect of their personnel, materials and equipment belonging to themselves or its sub-contractor during the execution of works at site.

17.0 WARRANTY / GUARANTEE : All the equipments & materials with all accessories shall be guaranteed for 12 (twelve) months from the date of commissioning.

18.0 SCHEDULE OF RATES

i) Supply of all the equipments & materials for VRV / VRF system complete at site : INR

ii) Installation & commissioning charges of VRV / VRF system complete at site : INR

Supply of all the equipments & materials for VRV / VRF system complete at site of but not limited to the following:

- " Outdoor unit(s)
- " Indoor units
- " Refrigerant Copper piping / Y-joints, cordless remote
- " Electric panel
- " G.I. drain pipes
- " Power cables, communication cables & conduits as required
- " Perforated cable trays with accessories
- " Materials for foundation works & machine fixing Lot 1

19.0 installation and commissioning:

Installation & commissioning charges of VRV / VRF system complete at site of but not limited to the following:

- " Installation of outdoor units at terrace
- " installation of indoor units at all floors including cutting of existing false ceiling as required
- " Repairing / Making good of ceiling / wall or its part in case of any damage to the existing false ceiling / wall during the execution works
- " Installation of perforated cable trays, Refrigerant Copper pipes / Y-joints, GI drain pipes, Electrical panel, power & communication cables
- " Vacuum testing, pressure testing & charging of the VRV / VRF system for commissioning.
- " Modification of existing AC ducts as required.

20.0 Bidders should submit their offer in compliance with the Appendix-I, Appendix-II and Appendix-III uploaded alongwith the tender documents in e-tender portal.

APPENDIX – I

LIST OF APPROVED MAKES OF MATERIALS

Sl. No.	ITEMS	ACCEPTABLE MAKES
1	Outdoor & indoor units for VRV / VRF system	Daikin / LG / Hitachi / Voltas / Blue Star / O-General / Mitsubishi Electric / Samsung / Carrier
2	Refrigerant Copper Pipe	Mandev Tubes
3	Control Cables / power Cables	Bonton / Finolex / Havells / Lappcable / Cords / Polycab
4	MCCB & Isolators	ABB / Siemens / L&T / Cutler Hammer / GE
5	G.I. sheets	Tata / HSL / Nippon / SAIL
6	Closed-cell polyethylene Insulation	Paramount / Armacell / Supreme

Note:

For any item not covered in the above list, the contractor shall get the samples Approved from the authorized representative of OWNER / ENGINEER-IN-CHARGE before the supply is made.

APPENDIX – II

TECHNICAL DATA TO BE FURNISHED BY THE BIDDER FOR THE VRF/ VRV SYSTEM

Bidders are required to separately fill the Data for each rating of the equipment offered.

A] OUTDOOR UNIT(s) (ODUs)

Sl. No.	Item description	Make / capacity / model
1	Make and model number	
2	Applicable codes and standards for manufacture	
3	Normal rating	
4	Actual rating of the ODU	
5	Number of compressors in outdoor unit(s)	
6	Type of compressor	
7	Type of modulation	
8	Capacity of each compressor	
9	Power consumption per TR at rated capacity of the ODU	
10	Total power consumption of rated capacity of the ODU	
11	Total Power consumption at actual capacity	
12	Motor rating of each compressor	
13	AC or DC motor	
14	Type of starter for the compressor motor	
15	Whether the motor starters are integral to the ODU	
16	Type of refrigerant	
17	Quantity of refrigerant in the circuit	
18	Noise level of the ODU at one meter from the ODU	
19	Energy Efficiency Ratio of the offered ODU	
20	Number of inverters where applicable for the ODU	
21	Construction of the ODU : Modular/ fabricated	

22	Casing material / Frame work material	
23	Painting/ coating	
24	Method of vibration isolation	

2.0 INDOOR UNITS (IDU)

Sl. No.	Item description	Make / capacity / model
1	Make and model number of the IDU	
2	Material of construction	
3	Type of indoor unit	
4	Type of mounting of the indoor unit	
5	Power consumption of each indoor unit at full load	
6	Air flow through the indoor unit	

Signature of Bidder (s)

APPENDIX . III

STRUCTURE & ORGANIZATION

1	Name & Address of the Bidder	
2	Telephone No./Telex No./Fax No.	
3	Legal status of the Bidder (attach copies of original document	
	a) An Individual	
	(b) A proprietary firm	
	(c) A firm in partnership	
	d) A limited company or Corporation	
4	Has the Bidder, or any constituent partner (in case of partnership firm), ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.	
5	Has the Bidder, or any constituent partner (in case of partnership firm), ever been debarred/black listed for tendering in any organization at any time? If so, give details.	
6	Has the Bidder, or any constituent partner (in case of partnership firm), ever been convicted by a court of law? If so, give details.	
7	Any other information considered necessary but not include above	

Signature of Bidder (s)

All other Annexures, Drawings are uploaded in e-tender portal