



चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड
(इंडियन ऑयल की ग्रुप कम्पनी)

Chennai Petroleum Corporation Limited

(A group company of IndianOil)

Ref: CC012611

Date: 04.10.2011

NOTICE INVITING TENDER (NIT)
(Corrigendum No.2 dated 04.10.2011)

Dear Sir,

Sub: Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

Ref. : 1) CC012611, Date 12.09.2011
2) Corrigendum No. 1 dated 27.09.2011

This has reference to the Notice Inviting Tender and Corrigendum No. 1 cited above. The tender document is modified to the extent as detailed below:

Clause No. Page No. in the bid document as follows:	Amended and modified to the extent as stated below
Part-A Techno Commercial Part: Corrigendum No. 1 dated 27.09.2011. The subject stipulated in Corrigendum No. 1 is given below. "Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners for two years (2009-2011) at Manali Refinery at CPCL".	Part-A Techno Commercial Part: Corrigendum No. 1 dated 27.09.2011. The subject stipulated in Corrigendum No. 1 is modified as given below. "Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL".
Part-A Techno Commercial Part: Special conditions of Contract - SCC clause No. 10.0 Price basis and Evaluated price (Page No. 50-53).	Part-A Techno Commercial Part: Special conditions of Contract - SCC clause No. 10.0 Price basis and Evaluated price (Page No. 50-53). The earlier given price basis and evaluated price is replaced and revised Price basis and evaluated price is attached as Annexure -1 to this Corrigendum No.2.
Part-A Techno Commercial Part: Annexure - 4 to SCC (Scope of Work).	Part-A Techno Commercial Part: Annexure - 4 to SCC (Scope of Work). The earlier given scope of work is replaced and the revised scope of work is attached as Annexure -2 to this Corrigendum No.2. The earlier given organogram vide Annexure - A along with scope of work remains unaltered. The same organogram is to be read along with the revised scope of work which is attached with Corrigendum No. 2.
Part-A Techno Commercial Part: Annexure - II to SCC (Payment terms).	Part-A Techno Commercial Part: Annexure - II to SCC (Payment terms). The earlier given Payment term is replaced and the revised Payment term is attached as Annexure -3 to this Corrigendum No.2.
Part-A Techno Commercial Part: Schedule of Quantities (SOQ).	Part-A Techno Commercial Part: Schedule of Quantities (SOQ). The earlier given Schedule of Quantities is replaced and the revised Schedule of quantities is attached as Annexure -4 to this Corrigendum No.2.
Part B Price Bid	Part B- Price bid The earlier given price bid replaced and the revised price part is attached as annexure 5 to this corrigendum 2

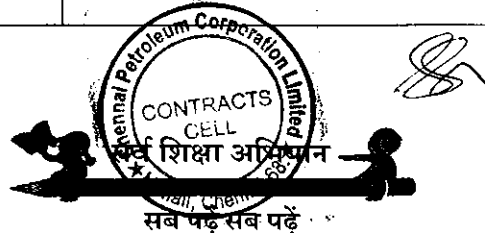
मणली, चेन्नै - 600 068.

Manali, Chennai - 600 068.

फोन / Phone : 2594 4000 to 009

फैक्स / Fax : 91-44-25941047, 25941247

वेब साइट / Website : www.cpcl.co.in



Other instructions:

- 1. The last date for submission of tender is extended up to 3.00PM on 17.10.2011 (Monday) instead of 10.10.2011.**
- 2. The revised price part shall attached in a separate sealed envelop superscribed with tender no: CC012611 dated 30.08.2011, Revised price bid (Part B) .**

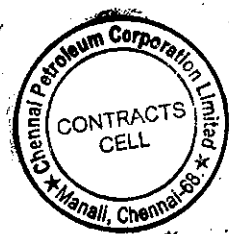
All other terms and conditions as mentioned including mode of submission and opening remains unaltered."

Corrigenda No. 1 and 2 are to be down loaded from our web site under the tender reference and duly signed and stamped on each page as token of acceptance and submitted along with the un-Priced part.

Thanking you,

Very truly yours,
For and on behalf of CPCL


S.SAKTHEVELAN
Manager (Contracts Cell)



Annexure – 1 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

10.0 **PRICE BASIS AND EVALUATED PRICE:**

10.1 **Taxes, Duties, Octroi, Levies, etc.**

The quoted prices shall be deemed to be inclusive of all types of taxes, duties, cess, levies, etc. ex including sales tax, cenvatable and Non-cenvatable Excise Duty, CVD and VAT, custom duty, works contract tax, entry tax, octroi, corporate tax, personal taxes, seigniorage fee and Service Tax. This price shall be deemed as gross price.

10.1.1 The variation in any of the taxes / duties and levies except Service Tax shall be to the Contractor's account.

10.1.2 New taxes or duties, if levied after the due date of submission of last price bid but before the contractual date of completion shall be reimbursed at actual, against production of documentary evidence.

10.2 **Service Tax :**

Bidder shall indicate the total amount of service tax considered in their offer as per the **Annexure** given along with Schedule of Rates.

The amount of Service Tax quoted shall be considered as indicative only. Service tax as billed by the Contractor shall be paid by Owner subject to condition that service tax registration number is mentioned in the invoice.

10.3 **C-Form**

If requested C-Form shall be issued by Owner to the Contractor.

10.4 **Income Tax**

Income Tax shall be deducted from the Contractor's bills at the prevailing rate as per the rules and regulations in force in accordance with Income Tax Act prevailing from time to time. The price offered shall be deemed to be inclusive of income tax.

10.5 **Other taxes :**

Notwithstanding the foregoing, Owner shall not bear any liability in respect of Personal Taxes on the personnel deployed by the Contractor, his Sub-Contractor and Agent, the Corporate Taxes in respect of Contractor and his Sub-Contractor and other Agents, Indian or Foreign based.



Annexure – 1 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

10.6 Cenvat Benefits

The present rates of CENVAT credit which shall be availed by CPCL for the subject work is indicated below :

Service tax : 88%

10.7 Evaluated price:

From the contractors quoted gross price, amount to the extent which CPCL can avail the tax input credit will be deducted and the evaluated price shall be computed. The L1 evaluated price shall be the basis for awarding.

A typical computation of arriving at the evaluated price is given below:

Evaluated price = Gross price offered - (88% of Total Service tax indicated in Annexure to SOR)

10.8 While submitting the bills / invoice during the course of execution the executing bidder shall attach clear and complete breakup details and documents pertaining to Service tax, VAT & Excise Duty and also shall indicate the service tax registration number in the invoice to claim the service tax.

10.9 Bidders to note that any variations in these taxes and duties shall be based on the submission of relevant government notifications.

10.10 FIRM PRICE:

10.10.1 The prices shall be kept FIRM till the completion of work.

10.10.2 The contract shall be in vogue till completion of contract duration or execution upto contract value, whichever occurs earlier.

10.10.3 Bidders to note that CPCL reserves the right to close the contract at any point of time when the executed value reaches 125% of the original contract value.



Tender No . CC0126 Dated 30.08.2011

Signature of the bidder
With official seal

Annexure – 2 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

SCOPE OF WORK (Annexure – IV to SCC)

1.0 OPERATION OF OF CENTRAL & PACKAGED AC PLANTS

The scope of work covers operation of all equipments including Motors, Compressors, Pumps, Valves, Cooling towers, Electrical switchboards, pushbutton stations, etc. associated with the Central AC plants and packaged AC units of different types and makes installed in Refinery, ETP, TTP, COGEN, R&D locations as listed in Schedule Of Quantities.

The contractor shall arrange to carry out the following jobs:

1. Operation (switching on and off) of the units as instructed by the Engineer-in-charge. Certain plants require round the clock operation and certain plants required to be operated in general shifts (from Monday to Friday, 7.30 AM to 4.30 PM. whenever required the plants have to be operated for extended hours and Holidays also. The schedule for operation of various plants will be given to the contractor. The contractor has to plan for adequate manpower for adhering to the schedule, and the same has to be approved by CPCL. Any change incorporated in the schedules by CPCL at later dates has to be followed by the contractor.
2. The contractor shall monitor and carryout ALL required operations to ensure the safety of the plant and to ensure that plant delivers optimum output.
3. Periodical checking of performance of running equipments and recording the following parameters (whichever is applicable) and running status of all the equipments of the plant.
 - Compressor suction pressure / discharge pressure
 - Compressor oil pressure & differential oil pressure
 - AHU supply and return air temperature & humidity
 - Refrigerant return temperature from AHU
 - Inlet & outlet water temperature & pressure of condenser & chiller
 - Any abnormal to be recorded in the Log book and immediately to be reported to the operating Supervisor for further instructions
4. All the above readings shall be noted with best possible measuring instruments for the correctness of readings.

The readings shall be recorded in a separate printed logbook (format to be approved by CPCL) for each plant. The logbooks have to be supplied by the contractor and the filled-in logbook has to be submitted every month.

5. Periodical change over of the running equipments with standby equipments as per operation schedule.
6. Whenever any of the equipment of the plant requires maintenance the same has to be isolated and handed over to the maintenance crew and when the equipment is back from maintenance the operation of the same has to be checked.
7. Choked drains have to be cleared.
8. Make up water to cooling towers have to be controlled.
9. Maintaining the cleanliness of the plant.
10. Attendance to be maintained and to be signed by the operator at the end of the day/shift. Attendance to be signed by CPCL engineer at the end of each month. Report for shortage of manpower to be reported.



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Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

11. Operator shift schedule to be prepared and get approval in advance. Any operator should not be allowed to work more than 16 hours under any circumstances.

2.0 MAINTENANCE OF CENTRAL AND PACKAGED AIRCONDITIONING SYSTEM

To carry out Maintenance of all equipments including Motors, Compressors, Pumps, Valves, Cooling towers, pushbutton stations, Gauges, measuring and indicating instruments, Instrumentation panels, Insulation, Pipelines, Refrigeration system, AHU's, Condensers, Ducts, filters, etc, associated with the Central & Package Air-conditioning Plants of different types and makes located at different parts in the Refinery as listed in the in item Schedule Of Quantities. Maintenance of Electrical switchboard (AC MCC) is included in the scope of this contract. However the spares required for this MCC will be supplied by CPCL. The scope covers all maintenance works in all equipments, including control panel associated with the above plants starting from the inlet valve of water line to the farthest end of the AC duct.

The job shall be carried out in two parts.

1. Preventive Maintenance
2. Break-down Maintenance

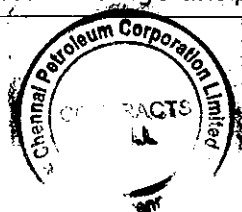
3.0 PREVENTIVE MAINTENANCE

Preventive maintenance should be carried out once in three months (except for such jobs where specific time has been mentioned) for each plant. The contractor shall arrange to carry out the following jobs on all Central A/c. Plants and Package units.

1. Record the following parameters prior to and after carrying out Preventive Maintenance jobs.
 - a. Compressor suction pressure / discharge pressure
 - b. Compressor oil pressure & differential oil pressure
 - c. AHU supply and return air temperature & humidity
 - d. Refrigerant return temperature from AHU
 - e. Inlet & outlet water temperature & pressure of condenser & chiller

All these readings shall be noted with best possible measuring instruments for the correctness of readings. These points shall be recorded and submitted.

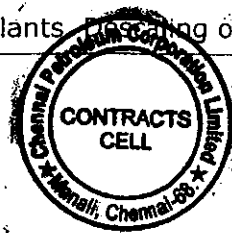
2. Carry out the following preventive maintenance jobs on the central AC plants and package AC units.
 - a. Cleaning of AHU filters, water wash them and dry the same before inserting them. Cleaning of filters shall be carried out whenever necessary or as directed by EIC.
 - b. Clean & overhaul the AHU cooling coils free of dust and dirt with water pressure once in year or whenever necessary .
 - c. Clean & overhaul the bottom of the AHU and clear the drains if any.
 - d. Inspect the supporting / anti-vibration mats of the cooling coils.
 - e. Check & overhaul the healthiness of AHU pedestal bearings and carry out greasing of the same.
 - f. Carry out lubrication of the AHU inlet and duct dampers
 - g. Check the healthiness of refrigerant piping



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- h. Carry out cleaning and overhauling of AHU refrigerant filter, (Liquid line strainer)
 - i. Check the healthiness of expansion valve and the associated solenoid coils and overhaul the same.
 - j. Check and adjust the belt tensions of AHU drive & compressor drive. Supply and replace the worn out belts.
 - k. Carry out cleaning of cooling tower basin and PVC fill
 - l. Clean the sprinkler system and check its operation
 - m. Clean the water strainer in the cooling tower supply line (pot strainer)
 - n. Check the oil level in the compressor and top up if necessary
 - o. Check & adjust the loading and unloading mechanism of the compressor.
 - p. Check all the tripping interlocks and verify with set values of suction pressure, high discharge pressure, OSS, etc.
 - q. Carry out checks for leaks in the refrigerant system and attend the leaks.
 - r. Check the glands of all pumps and tighten it if required.
 - s. Check the cooling tower ball float and adjust the same if required.
 - t. Carry out refrigerant gas filling depending upon the requirement of the plant. Ensure that the cylinder is provided with pressure regulator.
 - u. Open the terminal box of the motors of Compressors, cooling water pumps, cooling tower, Clean the motor surface and fan cover meshes.AHU's etc and check the tightness of terminal connections, clean the terminal boxes and refix the covers. If any of the cables are found charred, suitable lugs have to be supplied and reterminated. Any excavation required has to be arranged by the contractor.
 - v. Open and inspect the field control stations of all above motors and rectify any defects observed.
 - w. Lubricate the bearings of Motors, pumps and fans
 - x. Check the tightness of all the coupling bolts, wherever applicable.
 - y. Any other job related to ensuring smooth running of the system.
 - z. Painting for all the pipe lines(gas,water), motors, Pumps and compressor and where ever required within their area of scope at least one time during their contract period.
3. Start the AC Plant and check and record all the parameters of the plants as mentioned in item No.1 of this scope work. Compare the readings for improvement in the overall plant efficiency. Calculate the superheat from the readings and suggest and carry out settings to maintain constant superheat for plant efficiency.
 4. The contractor shall also carry out de-scaling of condenser, chemical cleaning of AHU coils and chemical cleaning of chillers once in six months. A separate team of skilled personnel for carrying out this job needs to be deputed at site.
 5. The contractor shall supply and replace all non-working gauges.
 6. The contractor shall arrange for cleaning and overhauling of thermal expansion valves. Superheat of TEV shall be adjusted after plant starting if required.
 7. All the material and equipments required for chemical cleaning and de-scaling of the condenser, chiller and AHU coils shall be arranged by the contractor.
 8. The contractor shall supply and change the oil of each compressor whenever required. A separate team of skilled personnel for carrying out this job needs to be deputed at site.
 9. The contractor shall keep the A/C. plant rooms clean and neat. Cleaning of the A/c. rooms shall be carried out periodically to ensure there is no dust accumulation.
 10. Schedule for the following jobs should be prepared by the contractor and adhered Scrupulously.
Quarterly Preventive Maintenance of all plants
De-scaling of condensers
Chemical cleaning



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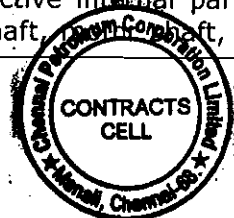
- of AHU coils and chillers
11. A Separate service report (format to be approved by CPCL) has to be printed and supplied by the contractor for above checks and reports have to be submitted on completion of each job.

4.0 BREAKDOWN MAINTENANCE OF A/C. PLANT

1. In case any of the A/C. plant does not give the desired result due to total or partial breakdown or due to any other reason, the contractor shall on top priority check, analyse and identify the faults like component / equipment / system failure, refrigerant leakage, water system and rectify the same by supplying and replacing defective parts, internals, pipe lines, duct sheets, consumables etc. and carrying out the jobs like , brazing / welding of refrigerant lines, refrigerant charging etc.
2. Contractor shall ensure that breakdowns in the plant are rectified and the plant is put back into service within 16 hours from the time of registration of complaint through telephone. Extension of time limits for major breakdowns will be on mutually agreed basis and as decided by the Engineer-in-charge. Whenever the contractor fails to rectify the breakdowns within given time, the contractor is liable for penalty wherever conclusive evidence is available that the delay is due to inaction or lack of spares or fault of the contractor. The amount of penalty to be levied would be decided by the EIC in accordance with General Conditions of Contract.
3. If any of the components of the system is declared as beyond repair by the contractor, CPCL reserves the right to repair the component through other contractors if possible, and will charge the expenses incurred on such jobs to the contractor.
4. A Separate service report (format to be approved by CPCL) has to be printed and submitted by the contractor for Breakdown Maintenance and duly filled reports have to be submitted on the same day after completion of each job .
5. Contractor has to respond to telephonic complaints and the job should be started within 1 hour from the time of registration of complaints during normal working hours and within 6 hours from the time of registration of complaints during night hours and holidays. The complaint received to be registered immediately with date and time.
6. The contractor has maintain all safety devices like HP, LP tipr & Single Phase Preventors, etc., to avoid Scroll Compressor failures.

5.0 REPLACEMENT OF EQUIPMENT OF A/C. PLANT

1. Some of the equipment of the AC plant such as condenser, AHU cooling coil, chiller, etc which becomes defective and could not be repaired any further, during the contract period has to be replaced. The Contractor has to carryout supply, erection and commissioning of the new equipment. The old equipment has to be removed and disposed to the CPCL scrap yard. No material or consumable will be supplied by CPCL and all required items has to be provided by the contractor. The charges for the same shall not be included in the AMC rates. The rates for the replacement of various equipment as above shall be quoted separately in the price bid. Whenever such equipment becomes defective, the contractor has to replaced the equipment as directed by Engineer-in-charge.
2. Replacement of the equipment as a whole is only included in the above list. Other than the above, rectification/replacement of all defective internal parts of the different equipment such as AHU blower, pulley, compressor shaft, compressor, condenser coil, cooling tower blades, cooling



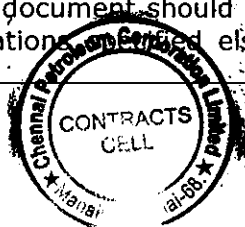
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tower fills, valve glands etc. shall be done by the contractor as part of AMC and no separate charges are applicable for replacement of internals of the equipment.

6.0 GENERAL CONDITIONS:

1. Contractor shall provide a supervisor for operation of plants and a supervisor for maintenance of plants in general shift on all working days (including Saturdays) and he should report for work at 7.30 A.M. The supervisor shall be computer literate and if at a later date, computer based complaint system is introduced he shall be able to receive and respond to the complaints through computer. In the event of introduction of such a system during the contract period, the bidder shall provide a computer to receive the complaints.
2. Contractor shall also provide
 - a. A separate team of AC Operators for carrying out operation of AC on round the clock basis / general shift basis as per the requirement of the plant , and
 - b. A separate team of AC Mechanics, rigger, electrician, fitter, casual worker for carrying out quarterly servicing of AC Plants / attending break-down maintenance.
3. A/C Operators and Mechanics shall have minimum qualification of ITI or equivalent in respective trades and shall have minimum two years working experience in the centralised air conditioning plant operation and maintenance. Supervisor shall have minimum qualification of ITI in air-conditioning and refrigeration system and shall have minimum working experience of five years in the field of Central A/c. Plant Operation and Maintenance as a Supervisor. Adequacy of personnel deployed will be verified by the Engineer-in-charge. periodically and if required the number has to be augmented as per the directions of Engineer-in-charge.
4. The contractor shall deploy a site manager for managing the AC contract both administratively and functionally. The site manager shall have minimum qualification of Diploma in air-conditioning and refrigeration system and shall have minimum working experience of six years in the field of Central A/c. Plant Operation and Maintenance. The site manager shall be available at the site during general shift hours (Monday to Saturday). The site manager shall report for work at 7.30 hours.
5. All transportation requirements for manpower, spares etc have to be arranged by the contractor. CPCL will not provide any assistance for transportation.
6. The contractor shall keep all the A/c. Plants in good working condition through his quarterly maintenance schedules. The preventive maintenance shall be carried out in such a way that it ensures smooth operation of the plant for the next three months.
7. During the course of the contract, if any of the plant needs to be removed from the scope of the contract, the same will be intimated to the contractor, 15 days in advance. The payment for the remaining period will be made excluding the plants removed from the scope of the contract.
8. History cards have to be supplied and maintained by the contractor for all the AC Plants covered by this contract and submitted at the end each month along with the bills .
9. If any new plants are added or certain old plants are recommissioned, the contractor shall agree to maintain the additional plants on the same per ton rates of equivalent unit, finalized through this contract.
10. The AC plants have to be maintained from 'As is where is condition' and wherever necessary, due repairs have to be carried out by the contractor to meet the requirements specified in this document.
11. Deviations if any to the tender document should be attached to the technical unpriced bid as a separate annexure. Deviations mentioned elsewhere in the technical bid will not be



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- entertained. CPCL reserves the right to accept or reject the deviations stated by the bidder. Decision of CPCL shall be final and binding on all.
12. Works shall be carried out as per the instruction and directions of CPCL Engineer-in-charge wherever details not furnished in the specifications/ special terms and conditions.
 13. Uniform has to be provided to all the contract workmen.
 14. The bidder should have a full-fledged office with telephone and fax facilities at Chennai, to cater to urgent calls. The bidder should also have a cellular phone facility. The bidder has to work on round the clock basis, including working on Sundays and Company Holidays if situation so demands, for operating and maintaining our plants.
 15. CPCL reserves the right to replace any part of the AC plant equipment like compressor, motor, outdoor, indoor unit etc., by engaging any other contractor during this contract period.
 16. The minimum suggested manpower required to carryout the job is given in the organogram chart Annexure – (A). However, the contractor should mobilize additional manpower if required, over & above the minimum requirement to meet the obligations under this contract without any implication to CPCL.

7.0 CPCL SCOPE OF SUPPLY

Supply of free power and water required for maintenance of equipments . No spares (except spares for switchboard, cables and lighting) , consumables or transportation assistance will be provided by CPCL.

Replacement of failed Scroll Compressor is in CPCL scope if the failure is not due to operation fault.

8.0 CONTRACTOR'S SCOPE OF SUPPLY

The scope of supply of the contractor includes, but not limited to the following :

1. All tools, tackles, lifting and handling equipments and all other requirements for successful completion of the job.
2. All spares required for maintenance and consumables required like refrigerant gas lubricating oil, nitrogen, oxygen and acetylene used for brazing, brazing rods and flux, greases, paints, insulation tapes, cotton wastes, cleaning cloth, PVC (ISI certified) flexible cables, etc shall be supplied by the contractor.



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2.0 MAINTENANCE OF WINDOW AND SPLIT AIRCONDITIONERS

INTRODUCTION:

Chennai Petroleum Corporation Limited, (A group company of IndianOil) a Public Sector Undertaking located at Manali, Chennai-600 068 invites sealed tenders under two bid system (technical un priced bid and priced bid) for finalizing the unit rates for carrying out the Comprehensive Maintenance of Window and Split Air conditioners of different makes such as Voltas, Carrier Aircon, LG, etc. installed in CPCL's - Refinery complex, comprising of Admn block, Maintenance building, HRD Complex, Control room, ETP, TTP, Co-gen, Polytechnic, CISF Quarters and R&D.

SCOPE OF WORK :-

The scope of work covers maintenance of window and split air conditioners in operation at Refinery complex, ETP, TTP, COGEN, Polytechnic, CISF Quarters and R&D locations.

1 PREVENTIVE MAINTENANCE:

1. The preventive maintenance on all air conditioners covered by the contract shall be carried out once in three months. Schedule for the same should be prepared by the contractor and adhered scrupulously. The following jobs shall be carried out.
 - Cleaning of air filters.
 - Cleaning of cooling and condensing coil fins.
 - Water washing of front grill cover.
 - Lubricating the fan motor.
 - Tightening of all electrical connections.
 - Cleaning of water drains.
 - Cleaning of base tray and painting wherever corroded.
 - Checking tightness of base bolts of compressor, fan motor, cooling and condensing coils etc.
 - Supply and replacement of operating knobs if found damaged or missing.
 - Switching on the unit and checking that the grill temperature reached is within limits.
2. When the cooling and condensing coils are found to be blocked with dirt that could not be cleaned using brushes, the coils have to be washed thoroughly with water.
3. A Separate printed service report cum history card (format to be approved by CPCL) to be prepared by the contractor for above checks and reports have to be submitted duly signed by the room occupant.
4. The successful bidder shall also carryout monthly cleaning of air filters of all Acs and submit the report of the same to EIC in format decided by EIC duly signed by the user.

2 BREAKDOWN MAINTENANCE:

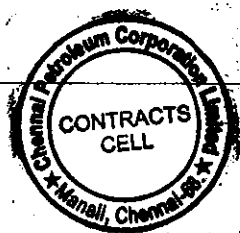
1. A service station with free power and water will be provided to the contractor inside CPCL premises. All repairs to the AC units including replacement of defective compressors and fan motors, leak testing, refrigerant charging, tinkering, painting etc., (except for compressor repair and fan motor rewinding) have to be carried out by the contractors service personnel at the service station.



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2. Contractor shall provide atleast 10 service units to CPCL during the contract period, which will be used as rotational spare during the lead time for repairs. The same shall be taken back by the contractor after the expiry of the contract period. The units will be handed over to the contractor only after the contractor repairs the CPCL's unit and installs in the position where the service units are running.
3. Contractor shall provide atleast 10 compressors and 10 fan motors to CPCL during the contract period, which will be used as rotational spare during the lead time for repairs. The equivalent quantity available as spare at the end of the contract period shall be taken back by the contractor after the expiry of the contract period.
4. When the cooling and condensing coil fins are permanently blocked more than 60%, the contractor shall replace the cooling/condensing coils. The contractor shall maintain few cooling/condensing coils as spare for the purpose. The decision of the Engineer-in-charge on replacement of the coils shall be final and binding on all.
5. Contractor shall ensure that any breakdown complaint notified to them shall be completed within two working days (including the day of complaint for complaints received before 9.30 A.M) using available spares and service units. Contractor shall plan for the requirement of spares and manpower to adhere to above completion period.
6. Contractor shall stand guarantee for the units serviced at the service station and should conduct all necessary tests to ensure trouble free operation.
7. When breakdown calls are notified to the contractors service personnel at CPCL site, they should reach the respective sites on their own, and attend to the defects and make the unit operational. If defect is of major nature, AC unit has to be transported to the workshop on their own and repairs have to be carried out. Spare unit available at workshop has to be fixed immediately at the location from where the defective unit was removed. CPCL will not provide any assistance for transportation.
8. When the compressors or fan motors of the AC units are faulty, the same has to be replaced with spare compressors and fan motors and the unit has to be put back to service. The defective compressors and fan motors shall be transported to and repaired at contractors workshop and transported back to CPCL at contractors cost . CPCL will not provide any assistance for transportation.
9. When the breakdown as traced by the contractor is due to power supply failure including failure of plugs of air conditioners, the same will be rectified by CPCL.
10. The compressors, fan motors, base trays, cooling and condensing coils, etc, taken for repairs/replacement shall be returned back to CPCL after repairs/replacement within reasonable time.
11. Contractor shall ensure that the following minimum spares and consumables are maintained at service station at any point of time : 1. Refrigerant gas 2. Oxygen and Nitrogen cylinders 3. Fan capacitors, relays, thermostats, operating knobs 4. PVC insulated (ISI certified) flexible wire.



Annexure – 2 to Corrigendum – 2 dated 04.10.2011

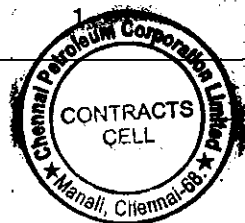
Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

12. Separate printed service report (format to be approved by CPCL) to be prepared by the contractor for breakdown maintenance and reports have to be submitted duly signed by the room occupant.

3 **GENERAL CONDITIONS:**

1. Contractors' workmen shall report for work at 7.30 A.M on all working days including Saturdays.
2. Contractor shall provide a supervisor for maintenance of air-conditioners in general shift on all working days (including Saturdays) and he should report for work at 7.30 A.M. Contractor shall also provide a separate team of AC Mechanics and helpers for carrying out maintenance of window air-conditioners.
3. A/C Mechanics shall have minimum qualification of ITI or equivalent in respective trades and shall have minimum two years working experience in the maintenance of window air-conditioners. Supervisor shall have minimum qualification of ITI in air-conditioning and refrigeration system and shall have minimum working experience of four years in the field of window air-conditioner maintenance as a Supervisor. Semi skilled workmen shall have minimum experience of two years in window air-conditioner maintenance
4. Contractor shall ensure that all their team of workmen are fully aware of the safety norms applicable to their type of work and ensure strict compliance. Safety equipments required as per rules / regulations are to be supplied to his employees by the contractor. Complete responsibility for any damage to the A/c. system or any injury to personnel shall be with the contractor and consequential damages shall be charged to the contractor.
5. Contractor shall arrange shifting of all equipment / unit of A/c from site to designated workplace and vice versa for repair & maintenance of ACs. Contractor shall keep hand trolley for shifting of units.
6. The complaints received till the end of the current contract will be recorded in the complaint register which will be closed at 3.00 PM on the last working day of the current contract. Both the new contractor (successful bidder of this tender) and old contractor shall sign on the complaint register to close the register. All the complaints registered will be attended by the existing contractor to the satisfaction of the user and the copy of the service reports of all the complaints that were pending as on the last date will be handed over to the new contractor. The new contractor shall attend further complaints on such units. The new contractor shall start receiving and attending the complaints from the first day of the new contract.
7. Any extra claims for repair / replacement of any components of window and split air conditioner or any extra claim for initial repair etc., will not be entertained / paid. The bidders are advised to ascertain the requirement of such repairs during the site visits and include / load the cost of any such repair in their unit rates.
8. The successful bidders are suggested to maintain the minimum manpower requirement at any point of time at Refinery premises so as to cater and attend the Preventative Maintenance & Break down maintenance activities. However, the contractor shall augment the manpower strength by deploying more manpower to clear the backlog from time to time as per the instruction of Engineer-in-Charge.
9. Suggested Minimum manpower for Group - 2 [Window & Split AC]

Requirement	Minimum Manpower
1 A/C Mechanic --	4
2 Semi Skilled workmen	6
3 Supervisor	1



Annexure – 2 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

The AC workshop shall be manned continuously from 7.30AM to 4.30 PM on all working days to receive the complaint calls made by the AC users. The person deputed in the workshop shall be computer literate and if at a later date, computer based complaint system is introduced the person shall be able to receive and respond to the complaints through computer. In the event of introduction of such a system during the contract period, the bidder shall provide a computer at the AC workshop.

10. The quantities indicated in the SOR is only indicative. On award of contract, from time to time, the Engineer-in-charge will provide the actual list / quantity of air-conditioners that have to be maintained by the contractor.
11. Units have to be maintained from "As is where is Condition". Wherever necessary, irrespective of receipt complaints, due repairs have to be carried out by the contractor during the first preventive maintenance.
12. Uniforms have to be provided to all the contract workmen.
13. When a condition arises that additional window air-conditioners, of any make have to be included for maintenance during the contract period, the tenderer shall include the maintenance of the additional window air-conditioners into the scope of the contract for the remaining contract period, at the same per unit rates finalised through this contract.
14. Works shall be carried out as per the instruction and directions of Engineer-in-charge wherever details not furnished in the specifications/ special terms and conditions.
15. The tenderer should have a full-fledged office with telephone and fax facilities at Chennai, to cater to urgent calls. The bidder shall have mobile phone facility.
16. The tenderer has to work on round the clock basis also if situation so demands.
17. Any delay in execution / completion of jobs will not be accepted on account of non-availability of manpower or simultaneous execution of jobs.

4.0 CPCL SCOPE OF SUPPLY

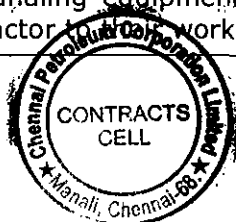
- 4.1 Supply of free power and water required for maintenance of equipments . No spares (except that required for HVAC units), consumables or transportation assistance will be provided by CPCL.
- 4.2 CPCL will supply the compressors for window & split ACs having 5 TR capacity only, Replacement of failed compressor is in CPCL Scope, if the failure is due to operation fault.

5.0 CONTRACTOR'S SCOPE OF SUPPLY

The scope of supply of the contractor includes, but not limited to the following :-

1. All tools and tackles, lifting and handling equipments required to complete the scope of work shall be provided by the contractor to his workmen.

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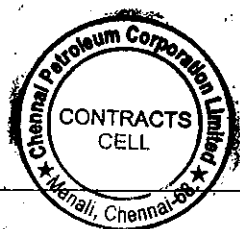


Signature of the bidder
With official seal

Annexure – 2 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

2. All spares required for maintenance and consumables required like refrigerant gas, lubricating oil, nitrogen, oxygen and acetylene used for brazing, brazing rods and flux, greases, paints, insulation tapes, cotton wastes, cleaning cloth, PVC (ISI certified) flexible cables, etc shall be supplied by the contractor. The above consumables required for maintenance of HVAC units also shall be supplied by the contractor.
3. All parts of the air conditioner units such as base plates, condenser coils, evaporator coils, shrouds, fan blades, relays, switches, thermostats, etc that could not be repaired shall be replaced with new ones by the contractor. The above parts required for the HVAC units alone is excluded from the scope of the contractor.



Annexure – 3 to Corrigendum – 2 dated 04.10.2011

Operation & Maintenance of Central, Packaged AC plants and Window / Split Air conditioners at Manali Refinery at CPCL.

PAYMENT TERMS Annexure - II to SCC

The following payment terms are applicable for both groups.

1. Bills to be submitted along with supporting documents like service reports, attendance, Temp statement, material consumption, ESI, EPF etc
2. Payment will be released to the contractor through ECS only. Income tax and other taxes, any recovery wherever applicable will be recovered at source.
3. No Mobilization advance is applicable for the subject work.
3. The quoted prices shall deemed to be exclusive of Service Tax. Service tax shall be paid along with the bills subject to the condition that service tax registration number is indicated in the bill.
4. Bills shall be paid on monthly basis.

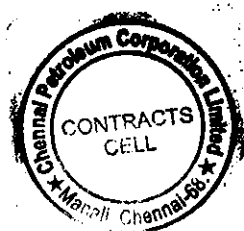
GROUP – 1:

- a) For O & M: 100% payment on monthly basis upon submission of bills. Payment will be made for the actual work executed and certified by EIC as per SOR.
- b) For Replacement: 100% payment against supply and installation of the spares.

GROUP – 2:

- a) For O & M : 100% payment on monthly basis upon submission of bills. Payment will be made for the actual work executed and certified by EIC as per SOR.
- b) Replacement : 100% payment against supply and installation of the spares.
- c) Penalty at the rate of Rs. 100/unit/service shall be levied if preventive maintenance is not carried out as per schedule.
- d) Penalty at the rate of Rs. 100 per extra working day will be levied if breakdown is not attended within the stipulated time of two days.

Tender No . CC0126 Dated 30.08.2011



Signature of the bidder
With official seal

**Annexure – 4 to Corrigendum No. 2
(Schedule of Quantities)**

SOQ FOR GROUP -1

Schedule of Rates

Service Required for Plant: 9910 ,CPCL-Manali Refinery

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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RFQ ITEM NO.00010 PART-1 O&M OF CENTRAL, PACKAGED AC UNITS

00010

GROUP:1

OPERATION AND MAINTENANCE OF CENTRAL
AC PLANTS AND PACKAGE AC UNITS
AS PER SCOPE OF WORK AND TERMS &
CONDITIONS ATTACHED.

00020

GROUP-1 - PART-1

Operation of Central air conditioning
plant and package ac units as per
scope of work, list and location of
plants and terms and conditions
attached.

The rate indicated in the SOR is
Lumpsum charges per month for the total
Quantity and Capacity of package units
indicated in the description.

00030

24.000

MON

OPN. OF CENTRAL & PACKAGE AC UNITS

00040

12.000

MON

CHARGES PER MONTH FOR OPERATION OF
CENTRAL AIR CONDITIONING UNITS IN
GT-4 CONTROL ROOM, MAKE : BLUE STAR,
(50 TR - 2 NOS).

00050

12.000

MON

CHARGES PER MONTH FOR OPERATION OF
CENTRAL AIR CONDITIONING UNITS IN
GT-4 SWITCH GEAR ROOM, MAKE : BLUE
STAR, (40 TR - 2 NOS).

00060

GROUP-1:

Maintenance of Central air conditioning
plant at the following buildings
/ locations at manali Refinery as per
the detailed scope of work,
specifications and terms and conditions

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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stipulated in the bid document.
The maintenance of the plant is comprehensive type in nature.
The rate indicated in the SOR is Lumpsum charges per month for the total Quantity and Capacity of package unites indicated in the description.

00070	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN NEW ADMINISTARTION BLOCK, PLANT MODEL : 5H46X3, MAKE : VOLTAS, (46 TR - 3 NOS.).	24.000	MON	
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00080	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN OLD ADMINISTARTION BLOCK, PLANT MODEL : 5H40X2, MAKE : VOLTAS, (40 TR - 2 NOS.).	24.000	MON	
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00090	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN OLD ADMINISTARTION BLOCK-2, PLANT MODEL : SMC465, MAKE : BLUESTAR, (20 TR - 1 NO.).	24.000	MON	
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00100	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN OLD TRAINING CENTRE, PLANT MODEL : 5F60X1, MAKE : VOLTAS (30 TR - 1 NO.).	24.000	MON	
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00110	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN NEW TRAINING CENTRE, PLANT MODEL : 5F40X2, MAKE : VOLTAS (20 TR - 2 NOS.).	24.000	MON	
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00120	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN WORKSHOP (EXTENSION) BUILDING, PLANT MODEL : ACS70, MAKE : BLUESTAR (40 TR - 1 NO.).	24.000	MON	
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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00130	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN R &D MAIN BUILDING, PLANT MODEL : AC570, MAKE : BLUESTAR (40 TR - 3 NOS).	24.000	MON	.....	.....
00140	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN R &D RESOT BUILDING, PLANT MODEL : 5F40X2, MAKE : VOLTAS, (20 TR - 2 NOS).	24.000	MON	.....	.....
00150	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN REFINERY - I CONTROL ROOM, PLANT MODEL : AC470,32X2, MAKE : VOLTAS, (32 TR - 2 NOS).	24.000	MON	.....	.....
00160	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN RREFINERY - I OPTIMISATION ROOM, PLANT MODEL : 5F40X2 , MAKE : VOLTAS, (20 TR - 2 NOS).	24.000	MON	.....	.....
00170	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN RREFINERY - I SHIFT MANAGER ROOM (FIRST FLOOR), PLANT MODEL : 5F40X1 , MAKE : VOLTAS, (20 TR - 1 NO).	24.000	MON	.....	.....
00180	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN RREFINERY - I FIELD PANEL ROOM, PLANT MODEL : 5H66X2 , MAKE : VOLTAS, (66 TR - 2 NOS).	24.000	MON	.....	.....
00190	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN OLD POWER PLANT, PLANT MODEL : 5H66X3 , MAKE : VOLTAS, (66 TR - 3 NOS).	24.000	MON
00200	CHARGES PER MONTH FOR MAINTENANCE OF	24.000	MON

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	CENTRAL AIR CONDITIONING UNITS IN LEB CONTROL ROOM, PLANT MODEL : 5H86X2 , MAKE : VOLTAS, (86 TR - 2 NOS).				
00210	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN REFINERY - II CONTROL ROOM, PLANT MODEL : KC4 80X2 , MAKE : KIRLOSKAR, (80 TR - 2 NOS).	24.000	MON	.....
00220	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN REFINERY - II CONTROL ROOM (FIRST FLOOR), PLANT MODEL : KC2 40X2 , MAKE : KIRLOSKAR, (40 TR - 2 NOS).	24.000	MON	.....
00230	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN NEW LABORATORY BLOCK, PLANT MODEL : 5H46X1 , MAKE : VOLTAS, (46 TR - 1 NO).	24.000	MON	.....
00240	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN REFINERY-3 GT CONTROL ROOM, PLANT MODEL : SMC4100 , MAKE : AXUIL, (48 TR - 2 NOS).	24.000	MON	.....
00250	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN REFINERY - III SRU CONTROL ROOM, PLANT MODEL : 5H46, MAKE : VOLTAS, (46 TR - 2 NOS).	24.000	MON	.....
00260	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN OLD TECHNICAL SERVICES BUILDING, MAKE : BLUE STAR, (40 TR - 1 NO).	24.000	MON	.....
00270	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN GT-4 CONTROL ROOM, MAKE : BLUE STAR,	12.000	MON	

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	(50 TR - 2 NOS).				
00280	CHARGES PER MONTH FOR MAINTENANCE OF CENTRAL AIR CONDITIONING UNITS IN GT-4 SWITCH GEAR ROOM, MAKE : BLUE STAR, (40 TR - 2 NOS).	12.000	MON	.....
00290	GROUP-1: Operation of Package air conditioning plants at the following buildings / locations at manali Refinery as per the detailed scope of work, specificatons and terms and conditions stipulated in the bid document. The maintenance of the plant is comprehensive type in nature. The rate indicated in the SOR is Lumpsum charges per month for the total Quantity and Capacity of package unites indicated in the description.				
00300	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN NEW ADMINISTARTION COMP SERVICE, MODEL : PA1600A, MAKE :ETA, (16.5 TR - 2 NOS.)	24.000	MON	.....
00310	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN NEW ADMINISTARTION COMP SERVICE, MODEL : PA1600A, MAKE :VOLTAS, (16.5 TR - 1 NO.)	24.000	MON	.....
00320	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN NEW CANTEEN, MODEL : 50BA016X2, MAKE :VOLTAS, (15 TR - 2 NOS.)	24.000	MON	.....
00330	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN WORKSHOP EXTENSION BUILDING, MAKE :VOLTAS, (15 TR - 1 NO.)	24.000	MON	

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00340	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING GROUND FLOOR, MAKE :BLUE STAR, 22 TR - 4 NOS.	24.000	MON
00350	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING GROUND FLOOR, MAKE :BLUE STAR, 16.5TR - 1 NO.	24.000	MON	.....	.....
00360	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING FIRST FLOOR, MODEL: DPA 2642S, MAKE :BLUE STAR, 22 TR - 2 NOS. MODEL: DPA 1983S, MAKE :BLUE STAR, 16.5 TR - 1 NO. MODEL: DPA 1322S, MAKE :BLUE STAR, 11 TR - 2 NOS. MODEL: DPA 661S, MAKE :BLUE STAR, 5.5 TR - 1 NO.	24.000	MON	.....	.....
00370	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS MANAGEMENT BUILDING SECOND FLOOR, MODEL: DPUASC2110Y, MAKE :VOLTAS, 17 TR - 3 NOS. MODEL: MRATU, MAKE :VOLTAS, 11 TR - 5 NOS.	24.000	MON	.....	.....
00380	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN LEB FIELD PANEL ROOM, MODEL: PW01011, MAKE :BLUE STAR, 10 TR - 2 NOS.	24.000	MON	.....	.....
00390	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN LEB UPS ROOM SPLIT PACKAGE, MODEL: 52/53BB005X1, MAKE :VOLTAS, 5 TR - 1 NO.	24.000	MON
00400	CHARGES PER MONTH FOR OPERATION OF	24.000	MON

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	PACKAGE AIR CONDITIONING UNITS IN DHDS VSD ROOM, MODEL: 50BB008NX4, MAKE :VOLTAS, 7.5 TR - 4 NOS.				
00410	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN OM &S CONTROL ROOM, MODEL: DUCTABLE SPLIT, MAKE :CARRIER, 16.5 TR - 3 NOS.	24.000	MON	.....
00420	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN LAB FIRST FLOOR, MODEL: 40LC/018/FD, MAKE :CARRIER, 16.5 TR - 1 NO.	24.000	MON	.....
00430	LAB FIRST FLOOR, 22TR-2NOS	24.000	MON	.....
00440	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 FIELD PANEL ROOM, MODEL: DPU3475, MAKE :VOLTAS, 7.5 TR - 2 NOS.	24.000	MON	.....
00450	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 110KV YARD PANEL ROOM, MODEL: DCU455, MAKE :VOLTAS, 5.5 TR - 2 NOS.	24.000	MON	.....
00460	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 DM WATER PLANT CONTROL ROOM, MODEL: DPA1001S, MAKE :BLUESTAR, 7.5 TR - 3 NOS.	24.000	MON	.....
00470	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN ANALYSER ROOM (PROJECT), MODEL: PACKAGE UNIT, MAKE :BLUESTAR, 8.5 TR - 2 NOS.	24.000	MON	
00480	CHARGES PER MONTH FOR OPERATION OF	24.000	MON	

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	PACKAGE AIR CONDITIONING UNITS IN GT-3 FIELD PANEL ROOM, MODEL: PACKAGE UNIT, MAKE :ETA, 16.5 TR - 2 NOS.				
00490	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN OPH FIELD PANEL ROOM, MODEL: DUCTABLE SPLIT, MAKE :CARRIER, 11 TR - 4 NOS.	24.000	MON	.....	.....
00500	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN GT-3 SWAS, MODEL: PACKAGE UNIT, MAKE :ETA, 7.5 TR - 2 NOS.	24.000	MON	.....	.....
00510	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN OLD WORKSHOP, MODEL: PACKAGE UNIT, MAKE :VOLTAS, 11 TR - 4 NOS.	24.000	MON	.....	.....
00520	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN EURO-IV SUB STATION PROJECT, MODEL: PACKAGE UNIT, MAKE :BLUE STAR, 16.5 TR - 2 NOS.	24.000	MON	.....	.....
00530	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN SRR-1 AT REFINERY-3, MODEL: DPW1983S, MAKE :BLUE STAR, 16.5 TR - 3 NOS.	24.000	MON	.....	.....
00540	CHARGES PER MONTH FOR OPERATION OF PACKAGE AIR CONDITIONING UNITS IN SRR-1 AT REFINERY-3, MODEL: DPW1983S, MAKE :BLUE STAR, 16.5 TR - 3 NOS.	24.000	MON	.....	.....
00550	Carryout Maintenance of Package air conditioning plants at the following buildings / locations at manali Refinery as per the detailed scope of work, specificatons and terms and conditions stipulated in the bid document. The maintenance of the plant				

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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is comprehensive type in nature.
The rate indicated in the SOR is
Lumpsum charges per month for the total
Quantity and Capacity of package unites
indicated in the description.

00560	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN NEW ADMINISTARTION COMP SERVICE, MODEL : PA1600A, MAKE :ETA, (16.5 TR - 2 NOS.),	24.000	MON	
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NOT TO BE QUOTED

00570	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN NEW ADMINISTARTION COMP SERVICE, MODEL : PA1600A, MAKE :VOLTAS, (16.5 TR - 1 NO.).	24.000	MON	
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00580	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN NEW CANTEEN, MODEL : 50BA016X2, MAKE :VOLTAS, (15 TR - 2 NOS.).	24.000	MON	
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00590	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN WORKSHOP EXTENSION BUILDING, MAKE :VOLTAS, (15 TR - 1 NO.).	24.000	MON	
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00600	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING GROUND FLOOR, MAKE :BLUE STAR, 22 TR - 4 NOS.	24.000	MON	
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00610	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING GROUND FLOOR, MAKE :BLUE STAR, 16.STR - 1 NO.	24.000	MON	
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NOT TO BE QUOTED

00620	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS BUILDING FIRST FLOOR, MODEL: DPA 2642S, MAKE :BLUE STAR, 22	24.000	MON	
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Tender No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	TR - 2 NOS. MODEL: DPA 1983S, MAKE :BLUE STAR, 16.5				
	TR - 1 NO. MODEL: DPA 1322S, MAKE :BLUE STAR, 11				
	TR - 2 NOS. MODEL: DPA 661S, MAKE :BLUE STAR, 5.5				
	TR - 1 NO.				
00630	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN MATERIALS MANAGEMENT BUILDING SECOND FLOOR, MODEL: DPUASC2110Y, MAKE :VOLTAS, 17 TR - 3 NOS. MODEL: MRATU, MAKE :VOLTAS, 11 TR - 5 NOS.	24.000	MON	.....
00640	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN LEB FIELD PANEL ROOM, MODEL: PW01011, MAKE :BLUE STAR, 10 TR - 2 NOS.	24.000	MON	.....
00650	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN LEB UPS ROOM SPLIT PACKAGE, MODEL: 52/53BB005X1, MAKE :VOLTAS, 5 TR - 1 NO.	24.000	MON	.....
00660	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN DHDS VSD ROOM, MODEL: 50BB008NX4, MAKE :VOLTAS, 7.5 TR - 4 NOS.	24.000	MON	.....
00670	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN OM&S CONTROL ROOM, MODEL: DUCTABLE SPLIT, MAKE :CARRIER, 16.5 TR - 3 NOS.	24.000	MON	.....
00680	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN LAB FIRST FLOOR, MODEL: 40LC/018/FD, MAKE :CARRIER, 16.5 TR - 1 NO.	24.000	MON	

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00690	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN LAB FIRST FLOOR, MAKE :VOLTAS, 22 TR - 2 NOS.	24.000	MON	.....	.....
00700	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 FIELD PANEL ROOM, MODEL: DPU3475, MAKE :VOLTAS, 7.5 TR - 2 NOS.	24.000	MON	.....	.....
00710	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 110KV YARD PANEL ROOM, MODEL: DCU455, MAKE :VOLTAS, 5.5 TR - 2 NOS.	24.000	MON	.....	.....
00720	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN REFINERY-3 DM WATER PLANT CONTROL ROOM, MODEL: DPA1001S, MAKE :BLUESTAR, 7.5 TR - 3 NOS.	24.000	MON	.....	.....
00730	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN ANALYSER ROOM (PROJECT), MODEL: PACKAGE UNIT, MAKE :BLUESTAR, 8.5 TR - 2 NOS.	24.000	MON	.....	.....
00740	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN GT-3 FIELD PANEL ROOM, MODEL: PACKAGE UNIT, MAKE :ETA, 16.5 TR - 2 NOS.	24.000	MON	.....	.....
00750	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN OPH FIELD PANEL ROOM, MODEL: DUCTABLE SPLIT, MAKE :CARRIER, 11 TR - 4 NOS.	24.000	MON

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Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00760	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN GT-3 SWAS, MODEL: PACKAGE UNIT, MAKE :ETA, 7.5 TR - 2 NOS.	24.000	MON	.....
00770	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN OLD WORKSHOP, MODEL: PACKAGE UNIT, MAKE :VOLTAS, 11 TR - 4 NOS.	24.000	MON	.....
00780	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN EURO-IV SUB STATION PROJECT, MODEL: PACKAGE UNIT, MAKE :BLUE STAR, 16.5 TR - 2 NOS.	24.000	MON	.....
00790	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN SRR-1 AT REFINERY-3, MODEL: DPW1983S, MAKE :BLUE STAR, 16.5 TR - 3 NOS.	24.000	MON	.....
00800	CHARGES PER MONTH FOR MAINTENANCE OF PACKAGE AIR CONDITIONING UNITS IN SRR-1 AT REFINERY-3, MODEL: DPW1983S, MAKE :BLUE STAR, 16.5 TR - 3 NOS.	24.000	MON	

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RFQ ITEM NO.00020 PART-2 SUP&REPL OF CENTRAL/PACK AC UNITS

00010
GROUP-1 - PART-2:
 Carryout Supply and Replacement of old equipment for Central / Packaged AC units at manali Refinery as per the detailed scope of work, specificatons and terms and conditions stipulated in the bid document. The maintenance of the plant is comprehensive type in nature.

00020
 OLD ADMN. GROUND FLOOR AHU-7 WITH NEW SINGLE SKIN :

1.000 EA

NOT TO BE QUOTED

Tendor No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	Supply and Installation of 12,000 CFM, 30 TR capacity air handling unit with DX coil, motor.				
00030	OM&S CONTROL ROOM - Supply and installation of 8.5 TR capacity Outdoor condenser coil with scroll compressor condensing unit assembly with compressor for Ductable split unit of 2 X 8.5TR.	4.000	EA	.....	.....
00040	LEB OFFICER ROOM, AHU 7 Supply and installation of 9000 CFM, 4 R chilled water coil AHU-XXXXXX.	1.000	EA	.....	.....
00050	Supply & installation LEB FPR AHU 11 coil only for chilled water plant, 45 TR.	1.000	EA	.....	.....
00060	REF 1 FPR AHU 11- 30Tr capacity. DX coil of size 94"(L)X17"(Ht)X4 Row (Tube size-12.7" OD, Aluminium fins (13 fpi), tube sheet - 18G GSS, Headers - M.S), 32 Tr capacity, 1200 CFM	1.000	EA	.....	.....
00070	Supply & Installation of AHU with DX coil at Refinery 1 control room., 32 TR capacity , 12000 CFM.	1.000	EA	.....	.....
00080	Refinery 1 control room AC plant condenser - Supply and installation of 40 TR water cooled shell and tube condenser.	1.000	EA	.....	.....
00090	Refinery 1 Field panel room AC plant condenser - Supply and installation of 60 TR water cooled shell and tube condenser.	1.000	EA	.....	.....
00100	Supply and Installation of AHU 7 with chilled water coil at R & D main	1.000	EA

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Tender No.: CC012611

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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building , 30 TR.

00110	Supply of Kirloskar make 11 TR scroll Compressor for MM bulding control room.	1.000	EA
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Signature of Tenderer

SOQ FOR GROUP -2

Schedule of Rates

Service Required for Plant: 9910 ,CPCL-Manali Refinery

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
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RFQ ITEM NO.00010 PART-1 O & M OF WINDOW / SPLIT AC UNITS

00010

GROUP:2 - PART-1:

MAINTENANCE OF WINDOW / SPLIT AC

UNITS AS PER SCOPE OF WORK AND TERMS
& CONDITIONS ATTACHED.

00020

GROUP-2 - PART-1:

Maintenance of Window and Split Units
at the following buildings /
locations at manali Refinery as per the
detailed scope of work,
specifications and terms and conditions
stipulated in the bid document.
The maintenance of the plant is
comprehensive type in nature.
The rate indicated in the SOR is
Lumpsum charges per month for the total
Quantity and Capacity of package units
indicated in the description.

00030

CHARGES PER MONTH FOR MAINTENANCE OF
WINDOW AIR CONDITIONERS UNITS,
CAPACITY : 1.5 TON, MAKE : VOLTAS, LG,
GODREJ, LOGICOOOL, CARRIER, OG.,
QTY - 290 NOS.

24.000

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00040

CHARGES PER MONTH FOR MAINTENANCE OF
SPLIT AIR CONDITIONERS UNITS,
CAPACITY : 1.5 TON, MAKE : VOLTAS, LG,
GODREJ, LOGICOOOL, CARRIER, OG,
QUANTITY:160 NOS.

24.000

LS

3134877
NOT TO BE QUOTED

00050

CHARGES PER MONTH FOR MAINTENANCE OF
SPLIT AIR CONDITIONERS UNITS,
CAPACITY : 2.0 TON, MAKE : VOLTAS, LG,
GODREJ, CARRIER, OG, QUANTITY:69
NOS.

24.000

LS

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
00060	CHARGES PER MONTH FOR MAINTENANCE OF SPLIT AIR CONDITIONERS UNITS, CAPACITY : 3.0 TR, MAKE : CARRIER & OG, QUANTITY:6 NOS.	24.000	LS	.....	.....
00070	CHARGES PER MONTH FOR MAINTENANCE OF SPLIT AIR CONDITIONERS UNITS, CAPACITY : 5.0 TR, MAKE : CARRIER & BLUESTAR, QUANTITY:24 NOS.	24.000	LS	.....	.....
RFQ ITEM NO.00020 PART-2 SUP&REPL OF WIN / SPLIT AC UNITS					
00010	Carryout Supply and Replacement of old equipment for units at manali Refinery as per the detailed scope of work, specifications and terms and conditions stipulated in the bid document. The maintenance of the plant is comprehensive type in nature.		window / split AC		
00020	SUPPLY OF FRONT GRILL FOR 1.5 TR WINDOW AIR-CONDITIONER (ANY MAKE), QUANTITY : 40 NOS.	40.000	EA	.....	.....
00030	SUPPLY OF STAND FOR FIXING OUTDOOR OF 1.5/2 TON SPLIT AC.	25.000	EA	.....	.....
00040	SUPPLY OF OUTER COVER FOR 1.5 TR WINDOW AIR-CONDITIONER (ANY MAKE).	40.000	EA	.....	.....
00050	SUPPLY OF INDOOR UNIT FOR 1.5 SPLIT AC (Any make).	5.000	EA
00060	Relocation of 1.5ton window AC (New Installation).	25.000	EA

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Tendor No. : CC012611

O.Lev. Sr.No.	Item No. Item Description	Quantity	Unit	Rate	Amount
00070	Relocation of 1.5ton Split AC (New Installation)	25.000	EA	.....	.....
00080	Supply of copper tube size 3/4"and 3/8" for (soft pipe) shifting 5 TR blue star vertical unit.	50.000	EA	.....	.....
00090	Relocation of 5 TR blue star vertical unit and commissioning.	25.000	EA

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Signature of Tenderer

DETAILS OF MAXIMUM SERVICE TAX CONSIDERED FOR THE SUBJECT WORK

SI No	Description	Maximum Amount of which Service Tax applicable (Rs.)	Present rate of service tax in percentage (%)	Total amount of Maximum Service Tax calculated at present rate (Rs.)	
				In Figs.	In words
1	Service tax considered for subject work.	Not to be quoted		Not to be quoted	Not to be quoted

Note:

- Any statutory variation on service tax within contractual completion period subject to the maximum taxable amount above shall be borne by the owner against documentary proof.
- In case, it is clarified by statutory authorities that Service Tax is not applicable, this amount shall not be payable.
- In case the service tax is indicated as "NIL" by the bidder and if the same is said to be applicable later, the same shall be borne by the contractor.
- For the purpose of statutory variation, the rates prevailing on the due date of submission of the last price bid / implication shall be taken as a base.
- The successful bidder shall be permitted to claim the applicable service Tax either through RA bill / claim reimbursement of actual ST paid towards the job on production of documentary evidence to the OIC.