

HLL LIFE CARE LIMITED
(A Government of India Enterprise)
P.B.NO. 2, PEROORKADA.P.O.,
THIRUVANANTHAPURAM - 695 005
KERALA, INDIA

INVITATION FOR BIDS (IFB)
(TECHNICAL BID & PRICE BID)

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 725/750KVA-LT
DIESEL GENERATOR SET

AT

PEROORKADA FACTORY, THIRUVANANTHAPURAM, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/DG SET 725/750 KVA/2013-14

HLL LIFECARE LTD
(A GOVERNEMENT OF INDIA ENTERPRISE)
P.B.NO.2, PEROORKADA.P.O.
THIRUVANANTHAPURAM – 695 005
KERALA, INDIA

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INVITATION FOR BIDS (IFB)

Tender no. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

Date : 20/02/2014

HLL Lifecare Limited (HLL) invites sealed and super scribed bids under two bid system (Technical & Price bid) for Supply, Installation, Testing, Validation and Commissioning of 725/750 KVA-LT Diesel Generator Set at HLL Lifecare Limited, Peroorkada Factory, Thiruvananthapuram.

The technical specification and other terms and conditions are given in the Tender documents, which can be had from our Website at www.lifecarehll.com & CPP portal (www.eprocure.gov.in). The tenderers can download the documents from our website & CPP portal and in such case the **tender fee of Rs. 520/-** should be paid by way of **DD** along with technical bid.

The Bidder is expected to examine the specifications and terms and conditions in the Bid Documents.

Any subsequent changes / amendments will be published only in our website & CPP portal.

Completed tenders in sealed cover superscribed with Tender No. should reach latest by 13/03/2014; 3.00 P.M. at the following address

Joint General Manager (Purchase)

HLL Lifecare Limited,

P.B.No. 2, Peroorkada P.O.,

Thiruvananthapuram -- 695005

Kerala, India.

Ph. (++ 91 471) 2437270, 2433459, 2435325

Fax: (++ 91 471) 2435013

The scheduled date for issue, receipt and opening of bids is as follows.

- a) Date of issue of tender document - 20/02/2014 onwards.
- b) Last date and time for receipt of bids - 13/03/2014 to 15.00 Hrs.
- c) Date and time of opening of Technical bids - 13/03/2014, 15.30 Hrs.

Bids will be opened in the presence of Bidders representative(s) who choose to attend on the specified date and time, at the office of HLL at the address given above.

In the event of the date specified for bid receipt and opening being declared as a closed holiday for HLL's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.

HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of the HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended. HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by email will not be accepted. The company reserves the right to club or split the items of works, change the qualifying criteria at their discretion and to reject or cancel the tender without assigning any reason there of.

JOINT GENERAL MANAGER (PURCHASE)

HLL LIFECARE LIMITED
(A Government of India Enterprise)
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

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I. INSTRUCTION TO BIDDERS:

II. TECHNICAL BID FORMS

1. Schedule A - Specifications
2. Schedule B - Prequalification Requirements
3. Schedule C - Application for Prequalification
4. Schedule D - Details of major installations (min 3nos.) of similar work completed successfully as prime contractor during the last 3 years
5. Schedule E - Details of ongoing installations or orders in hand for similar works
6. Schedule F - Technical Specification
7. Schedule G - Acceptance form
7. Schedule H - Terms and conditions
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III. PRICE BID FORMS

1. SCHEDULE J - Rate Schedule for supply, installation, testing and commissioning of 725/750KVA-LT diesel generator set

HLL LIFECARE LIMITED
(A Government of India Enterprise)
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

INSTRUCTIONS TO BIDDERS

1. The Bid is intended to procure material as per specification in Schedule-A.
2. The Bid comprises of two parts:
 - A. Technical Bid
 - B. Price Bid
3. The Technical Bid must be accompanied by **EMD of INR 50,000/-** by way of **Demand Draft** drawn in favour of M/s.HLL LIFECARE LIMITED (HLL) and payable at Thiruvananthapuram, India
4. SSI Units interested in availing exemption from payment of Tender Fee & EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC along with the Technical Bid
5. Both the Bids shall be submitted in sealed covers separately. Tender Nos. of the Technical and Price Bids shall be superscribed on the respective covers in order to clearly identify between the two Bids. The two separately marked Bids enclosed in a single sealed cover with the respective Tender No. mentioned thereon, complete in all respect, addressed to the Joint General Manager (Purchase) HLL LIFECARE LIMITED, Peroorkada P.O., Thiruvananthapuram – 695005, Kerala, India should reach us on or before the due date and time mentioned in the Tender Notification. HLL shall not be responsible for any delay, if any, in the delivery of the bidding document or non-receipt of the same.
6.
 - a. The last date of receipt of Techno-Commercial Bid: 13/03/2014;15.00 Hrs.
 - b. Date of Opening of Technical Bid: 13/03/2014; 15.30 Hrs.

HLL LIFECARE LIMITED
(A Government of India Enterprise)
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

INSTRUCTIONS TO BIDDERS

7. In the event of the date mentioned above being declared subsequently as holiday for the purchaser's office, the due date for submission and opening of bids will be the next working day at the same venue and time.
8. Bids received after the deadline for submission shall not be considered.

9. SECURITY DEPOSIT:

The successful bidder is required to furnish **Security Deposit** in the form of Demand Draft, drawn in favour of HLL Lifecare Ltd., payable at Thiruvananthapuram OR a Bank Guarantee for an amount equivalent to **5% of the total order value**. The EMD of successful bidders will be converted to Security Deposit and will be refunded at the end of contract period. The successful bidder shall arrange for balance after adjusting the EMD amount. Security Deposit shall be retained (B.G. should remain valid) until successful completion of the contract and acceptance of the machinery/works by the purchaser. The Security Deposit will be released against **performance guarantee** for an **amount equivalent to 10% of the total order value**, in the form of Demand Draft or Bank Guarantee by the supplier.

10. The successful bidder shall forward Security Deposit within 21 days from the date of receipt of the order in the form of Demand Draft OR Bank Guarantee.

HLL LIFECARE LIMITED
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THIRUVANANTHAPURAM-695 005, KERALA, INDIA

INSTRUCTIONS TO BIDDERS

11. The Bidder is expected to examine all specifications, Instructions, Forms, terms and conditions given in the Bidding documents. Failure to furnish all information required in the Bidding documents or submission of a Bid not substantially responsive to the bidding documents in every respect will be at the Bidders risk and may result in rejection of the Bid. Any clarification required will have to be obtained one week prior to the date of opening of the "Technical bid".
12. A Certificate/Declaration as given in Schedule I stating that **ALL TERMS AND CONDITIONS** of this Tender is acceptable should accompany the tender failing which the tender is likely to be summarily rejected.
13. **The Price Bid of those Tenderers who qualify in the Technical Bid only will be opened. The date and time of opening of price bid will be intimated separately. The Price Bids of Tenderers who do not qualify shall be returned unopened.**
14. The EMD may be forfeited:
 - (a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Document; or
 - (b) In case of the successful Bidder, if the Bidder fails:
 - (i) to sign the agreement.
 - (ii) to furnish security deposit.
 - (iii) does not accept the correction of his bid price pointed out by HLL

14 A complete set of bid document can be downloaded from the website www.lifecarehl.com. For any clarifications connected to the tender, please contact

Joint General Manager (Purchase),

Phone No. +91 – 471-2435325,

Email: materialspt@lifecarehl.com

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HLL LIFECARE LIMITED
(A Government of India Enterprise)
THIRUVANANTHAPURAM-695 005, KERALA, INDIA
TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 725/750KVA-LT DIESEL
GENERATOR SET AT PEROORKADA FACTORY, TRIVANDRUM, KERALA, INDIA**

Supply, installation, testing, validation and commissioning of 725/750 KVA LT (580/600 KW at 0.8 pf) Diesel generating set comprising of Diesel engine and alternator with all accessories, ACB panel board, control panel and all other details as described below abiding all relevant IS/BS/IEC specifications. The maximum power rating of the DG set should be 725/750KVA (580/600KW at 0.8pf)

The scope of the supplier shall cover the following:

- a) Supply and fixing of the Diesel Generator Sets with all accessories including standard control panel and required numbers of best quality anti vibration mountings etc at desired location at site (PEROORKADA FACTORY) w/o damage and free of defects. Necessary crane services for unloading and leading will be arranged by HLL
- b) Supply of integral piping required for lube oil system, fuel system, and engine cooling system, supply of flexible connections, if any, to be inserted in cooling system, lube oil fuel oil.
- c) Supply of control cubicle and isolating facility having DG control panel integrated with DG set.
- d) Initial filling/supply of coolant, oil, oil filter etc shall be provided.
- e) Supply of factory made integral type outdoor acoustic enclosure for the mentioned generator set which shall bring down the sound level of generator set to latest CPCB norms.
- f) One day capacity fuel tank shall be supplied (990ltrs)
- g) Supply and laying of 4R 3.5 core 400sqmm Al XLPE cable 1100Volt for connecting DG set with DG breaker panel and DG breaker panel with substation MV panel board.
- h) Providing four numbers of copper plate earthing (Chamber) with pipe, funnel, cu flat, salt & charcoal (600*600*3.15mm) and connecting using 50*6 mm Cu strips.
- i) Exhaust using 8" MS pipe having necessary Al-cladding using 50mm thick rock wool.
- j) Appropriate support has to be provided for DG exhaust. All structures have to be painted using epoxy-non corrosive paint.
- k) The supplier shall provide their validity of the offer, guarantee, taxes and duties, freight, insurance, loading & unloading charges, their terms and conditions regarding delivery.
- l) The party is advised to make a prior visit to our factory before participating in the tender so as to get a better clarity about the scope of work.

A Engine

Diesel engine shall deliver sufficient BHP at full load at 1500 rpm for powering alternator of 725/750 KVA (580/600 KW at 0.8 pf) and shall be turbo charged after cooled type conforming to BS: 5514 with an overload capacity of 10% for one hour in any 12 continuous hours of operation. The engine shall be suitable for cold starting and shall be equipped with all accessories. The materials used should be noncorrosive. Main items are detailed below.

1. Generator set specifications

- a) Governor regulation class: ISO8528 Part 1 Class G3
- b) Voltage regulation; no load to full load : $\pm 0.5\%$
- c) Random voltage variation: $\pm 0.5\%$
- d) Frequency regulation: Isochronous
- e) Random frequency variation: $\pm 0.25\%$
- f) Rated Power output 725/750kVA (580/600kW at 0.8pf)
- g) Rated Voltage 240/415Volts, 50Hz, 3Phase
- h) AC entrance box

2. Fuel System

The fuel system designed for high speed diesel fuel having a **micro processor controlled Fuel injection system** consisting of

- a) Fuel pump
- b) Injectors
- c) Fuel filters
- d) Self contained piping
- e) Spin-on fuel filter with water separator

3. Cooling System

- a) Radiator / Coil cooler with adequate capacity
- b) Forced air cooler
- c) Thermostat
- d) Corrosion resistor
- e) Self contained piping

Note Heat exchanger shall also be of the engine manufacturer.

4. Lubricating System

Lubricating system consisting of

- a) Oil pump, engine mounted
- b) Filters (Fleetguard dual venturi spin-on, combination full flow and bypass filters)
- c) Lube oil cooler
- d) Self contained piping
- e) Pre-lube pump with starter and all necessary piping

5. Air system

Air intake system consisting of

- a) Dry type filters
- b) Air intake manifold
- c) Turbocharger with after cooler (exhaust gas driven)

6. Exhaust System

Exhaust system consisting of

- a) Exhaust manifold with **expansion joint**
- b) Flexible pipings
- c) Exhaust silencer (Residential type)
- d) Exhaust piping with support structure to take the pipes up to above roof slab of the building (min. 15mtrs).
- e) The portion of exhaust pipes / silencers inside the DG room has to be provided with thermal lagging using glass wool of appropriate type with aluminium cladding.
- f) Exhaust meeting all norms as per latest CPCB regulations as on date.

7. Governing system

Governing system shall consist of electronic governor with 1% or better steady state speed regulation (no load to full load speed variation) and suitable for parallel operation with similar DG set in future. Governor regulation class: ISO8528 part1 Class G3. Voltage regulation (No load to full load): +/- 0.5%. Random Voltage variation: 0.5%

8. Starting system

Starting system shall consist of

- a) DC starter motor
- b) Battery charging alternator with built in regulator.
- c) Separate static type charging unit for charge during idle periods.

- d) One set of battery at required voltage and adequate capacity with suitable sturdy stand, leads and terminals. Coupling arrangement with flexible coupling, flywheel with housing and coupling guard.

9. Engine mounted Instrument panel consisting of

- a) Starting switch with key
- b) Water temperature gauge
- c) Lube oil pressure gauge
- d) Hour meter for recording hours run at 1500 rpm
- e) Warning details/history

10. Safety controls shall be provided for

- a) High water temperature
- b) Low lube oil pressure (**alarm provision**)
- c) Over speed
- d) Lube oil priming pump with auto start facility
- e) Lube oil priming pump interlock with engine start facility.
- f) Crank case door should have explosion damper

11. Base Frame

Engine and alternator shall be aligned and assembled on a sturdy base frame made of high quality MS channels with pre-drilled bolt holes for installation on concrete plinth.

12. Fuel Tank

Day fuel tank of 990 ltr capacity with inlet, outlet pipe connections, valves, filling cap, drain plug, air vent, and level indicator with graduated scale and mounted on floor. All fuel piping from tank to engine is included in the work including pressurizing and leak test.

Alternator

- a) Alternator shall be of capacity 725/750 KVA or 580/600KW at 0.8 pf continuous operation rating at 1500 rpm.
- b) Self excited self regulated brush less type with exciter field controlled by separate/panel mounted solid state voltage regulator and regulation of +/- 1% of rated voltage from no load to full load.
- c) Class 'F' insulation, floor mounted, self-ventilated SPDP enclosure (IP: 23).
- d) Alternator shall be suitable for tropical climate and saline atmosphere and generally conforming to IS: 4722, BS: 5000, IEC34-1.

- e) Adequate size terminal boxes shall be provided for 450 volts 3 phase 3 wire 50Hz with neutral terminals brought out separately.
- f) The alternator should be double bearing type.
- g) The alternator should be provided with AVR facility.
- h) Standard temperature rise should within 100 °C standby at 40 °C ambient. Exciter type can be permanent magnet generator.
- i) Direct drive centrifugal blower fan for alternator cooling.
- j) The AC waveform total harmonic distortion should be less than 5% for no load to full linear load and less than 3% for any single harmonic.
- k) The alternator shall be in accordance with the following standards as are applicable IS 4722 /BS 2613/1970 – The electrical performance of rotating electric machine. IS 4889/BS 269 - rules for method of declaring efficiency of an electrical machine.

B. ACCESSORIES

1. One Set of space heater with switch and indicator. Switch and indicator shall be mounted on control panel.
2. 6 Nos. RTD for winding temperature detection.
3. 2 Nos. bearing temperature detectors.

C GENERATOR PANEL

The generator panel shall consist of a control panel, breaker panel.

The control panel providing governing, voltage regulation, engine protection and operator interface functions. The ACB should have overload

Operator/display panel

- Off/manual/auto mode switch
- Manual run/stop switch
- Panel lamp test switch
- Emergency stop switch
- Alpha-numeric display with pushbutton access for viewing engine and alternator data and providing setup, controls and adjustments
- LED lamps indicating not in auto, common warning, common shutdown, remote start
- Configurable for local language

Engine protection

- Over speed shut down
- Low oil pressure warning and shut down

- High coolant temperature warning and shut down
- High oil temperature warning
- Low coolant level warning or shut down
- Low coolant temperature warning
- High and low battery voltage warning
- Weak battery warning
- Fail to start (over crank) shut down
- Fail to crank shut down
- Redundant start disconnect
- Cranking lockout
- Sensor failure indication

Engine data

- DC voltage
- Lube oil pressure
- Coolant temperature
- Lube oil temperature
- Engine speed
- Engine ECM data

Protections

The following protective relays shall be provided.

- a) Microprocessor based 3 over current and 1 earth fault relay with Instantaneous HI set unit.
- b) Instantaneous differential relay for alternator windings
- c) Field failure relay
- d) Reverse power relay
- e) Under voltage relay
- f) Over voltage relay

Note: Necessary CTs of adequate burden, capacity and appropriate ratio shall be provided for the above relays. CTs shall be resin cast type of class 5P 10.

ACB and engine shall trip in the event at the following.

1. High coolant temperature
2. Low lube oil pressure
3. Over speed
4. Differential fault or on any other major faults
5. High lube/engine temperature

Metering

The following digital meters shall be provided.

- a) Ammeter with selector
- b) KV meter with selector
- c) Power factor meter
- d) Frequency meter
- e) DC Ammeter for field current
- f) DV Voltmeter for field voltage
- g) Trivector meter (L & T make only)
- h) KVA meter
- i) Energy meter (Conserve 6433)

Note: Necessary CTs of adequate burden, capacity and appropriate ratio shall be provided for the meters. CTs shall be resin cost type of class 0.5 accuracy.

Indications

Multiple LED type indication shall be provided for the following.

- a) Generator ON (Red)
- b) ACB ON (Red)
- c) ACB OFF (Green)

- d) ACB spring charged (Blue)
- e) Trip circuit healthy with push button (white)

Push Buttons

- a) Engine start
- b) Engine stop
- c) Fault accept/reset
- d) Speed raise
- e) Speed lower

Annunciation system

Annunciation system shall consist of audio alarm and visual indication complete with fault accept/reset push button, for the following.

- a) Low lube oil pressure
- b) High coolant temperature
- c) Engine over speed
- d) Over voltage
- e) Under voltage

- f) Over current and earth fault
- g) Differential fault
- h) Field failure
- i) Reverse power

Note: All control cabling necessary for the scheme shall be included.

2. Circuit Breaker Panel

Indoor type front operated Circuit Breaker panel suitable for operation on 415 V, 3 phase, 50 Hz. AC complete with power and control wiring, inter connections, TP tinned copper bus bar with sleeves and non hygroscopic high dielectric strength bus bar support insulators, earth bus, painting complete and consisting of 1 No. of breaker having motor charged spring closing mechanism with manual charging and close/ trip facility vacuum circuit breaker with 230V, 50 Hz. Single phase AC motor dust and vermin proof totally enclosed in sheet steel housing, fully interlocked, horizontal draw out type with trip free mechanism, mechanical ON / OFF and spring status indicator, earthing terminal, automatic safety shutters, complete with auxiliary contacts and service position micro switch. The following shall be provided on the CB panel.

1. Red and green colour indicating lamps LED type as detailed in previous section for ON and OFF.
2. Blue colour lamp to indicate spring charged condition.
3. Current transformers for metering and protection detailed in previous section (Resin cast type).
4. Spring charging motor ON / OFF switch.
5. Overload/ Short circuit/ Ground fault protection
6. Closing coil.
8. Shunt trip coil.
9. Mechanical close and trip knobs.
10. The ACB panel shall be extendable on one side to accommodate future panels.

4. All the works till termination of DG supply to MV panel will be under the scope of the party. The party is advised to make a visit to the site before participating in the tender.

Control Supply Voltages

- | | | |
|----|----------------------|-----------------|
| 1) | Closing coil | - 24 V DC |
| 2) | Tripping coil | - 24 V DC |
| 3) | Indication circuit | - 24 V DC |
| 4) | Auxiliary relay | - 24 V DC |
| 5) | Microprocessor relay | - 24 V DC |
| 6) | ACB motor | - 230 V AC 1 ph |

| RECOMMENDED MAKES OF EQUIPMENT/MATERIAL | | |
|-----------------------------------------|---------------------------|--------------------------------------------------------------------------------|
| SL.NO | DESCRIPTION | MAKE |
| 1 | Diesel Engine | Cummins / Caterpillar |
| 2 | Alternator | Stamford / Leroy Somer / Caterpillar / Toyo Denki |
| 3 | Starters and switch gears | Legrand / Siemens / L&T |
| 4 | Cables | Finolex / Havells / Nicco |
| 5 | Relays (digital) | G E/ Schneider / Siemens / L&T / ABB |
| 6 | Meters | Rishab / Conzerve / Secure / Enercon |
| 7 | Lead acid batteries | Exide / Panasonic / fiam / Amron |
| 8 | Motors | ABB/ Siemens / CG |
| 9 | Electrical panels | Local make as per IS-standard design with L&T/ Siemens / Legrand components |

All supply/installations has to strictly adhere to latest IS & IEC standards and all CPCB norms pertaining to Reciprocating internal combustion engine drive alternating current generating sets.

ACCEPTANCE TESTS

The following routine/ acceptance test in presence of M/s. HLL's representative will be performed at the place of manufacture before dispatch without any extra charges.

Checking of weights, dimensions, fitting and accessories, tank sheet thickness, oil quality, material, finish & workmanship as per GTP & contract drawings. All drawings, design and documents has to get approved from HLL's authorities before DG set is dispatched from manufactures place.

Routine tests as per standards at manufacturer's place. Operation checks: Full load run test shall be done after installation/erection at site for a period of at-least 8 hours continuous run. The necessary load for conducting the test will be arranged by the supplier.

QUALITY ASSURANCE PLAN:

The bidder shall invariably furnish following information along with his bid, failing which his bid shall be liable for rejection. Information shall be separately given for individual type of equipment offered.

1. Statement giving list of important raw materials, names of sub-suppliers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in the presence of bidder's representative, copies of test certificates. Information and copies of test certificates as above in respect of bought out accessories.
2. List of manufacturing facilities available.
3. Level of automation achieved and list of areas where manual processing exists.
4. List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspection.
5. List of testing equipment available with the bidder for final testing of equipment along with valid calibration reports. These shall be furnished with the bid. Manufacturer shall possess 0.1 accuracy class instruments for measurement of losses. Quality Assurance Plan (QAP) with hold points for M/s HLL's inspection.

STANDARDS

All materials supplied shall conform in all respects to the relevant Indian / International Standards with latest amendments thereof, complying customer requirements and specifications.

DOCUMENTATION

- 1 The bidder shall furnish along with the bid the dimensional drawings of the items offered indicating all the fittings.
- 2 Dimensional tolerances.
- 3 Weight of individual components and total weight.
- 4 An outline drawing front, elevation and plan where in the principal dimensions shall be given.
- 5 Typical general arrangement drawing showing sides and end-elevation and plan of the diesel generator.
6. Standard electrical wiring details for all control panel boards supplied by the supplier.

PACKING AND FORWARDING

The packing shall be done as per the manufacturer's standard practice. However, it should be ensured that the packing is such that, the material would not get damaged during transit by Rail/ Road. The marking on each package shall be as per the relevant IS.

MANADATORY SPARES

Mandatory spares shall be supplied as per requirement.

GUARANTEE

The manufacturers of the DG set shall provide a minimum guarantee of 12 months from the date of commissioning. In case the diesel generator fails within the guarantee period the purchaser will immediately inform the supplier who shall take back the failed DG set within 15 days from the date of the intimation at his own cost and replace/repair the DG set within forty five days of date of intimation with a roll over guarantee. The outage period i.e. period from the date of failure till unit is repaired/ replaced shall not be counted for arriving at the guarantee period. In the event of the supplier's inability to adhere to the aforesaid provisions, suitable penal action will be taken against the supplier which may inter alia include blacklisting of the firm for future business with the purchaser for a certain period.

PLACE:

NAME & SIGNATURE OF THE APPLICANT

DATE:

(WITH OFFICE SEAL)

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA, THIRUVANANTHAPURAM-695 005, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 725/750KVA-LT DIESEL
GENERATOR SET AT PEROORKADA FACTORY, TRIVANDRUM, KERALA, INDIA**

PREQUALIFICATION REQUIREMENTS

1. The Bidder should be an Original Manufacturer (OEM) of the Diesel Generator set or his authorized dealers in India. Authorized Dealers should attach relevant dealership certificate.
2. The tenderer should have minimum five years experience in the relevant field.
3. The tenderer should have completed at least two similar works in nature in a single contract – in the same name and style as prime contractor costing not less than Rs.50 Lakhs each during the last 3 years. For the purpose of this clause. 'Similar work' shall mean complete work including supply, installation, testing, validation and commissioning of min. 725kVA LT Diesel Generator and above.
4. Average annual financial turnover of the bidder during the last 3 years, ending 31st March of the previous financial year, should be at least Rs 50Lacs (Fifty Lacs)
5. The tenderer should submit Earnest Money Deposit in the manner specified along with the tender document.
6. The tenderer should have adequate number (Min 2Nos.) of qualified engineers, technical persons. They should have a minimum 5 years experience in the relevant field for executing the work.
7. The tenderer should have adequate construction machineries tools and equipments for the execution of the tendered work.
8. Power of Attorney in case an authorized representative has signed the tender.
9. The duly signed acceptance form conforming that all terms & conditions, technical specifications, drawings & volume of job are understood by the bidder Certificate that bid is in total conformity with the specifications and terms and conditions mentioned in the bid document.
10. Deviation if any, giving reasons for the deviation.

11. Even though the bidder meet the above qualifying criteria, they are subject to be disqualified if they have:

- Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc...

HLL does not bind itself to accept the lowest or any tender, and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part without assigning any reason for doing so.

Place:

Signature

Date:

Name and address of the bidder with seal

HLL LIFECARE LIMITED
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TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

APPLICATION FOR PREQUALIFICATION

**NAME OF WORK: SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF
725/750KVA-LT DIESEL GENERATOR SET AT PEROORKADA FACTORY, TRIVANDRUM,
KERALA, INDIA**

A. Name of Firm/Company :

1. Postal address :

2. Telephone No :

FAX :

E-Mail :

3. Year of establishment of firm/Company :

B. In the case of Firm

1. Whether proprietary of partnership firm :

2. Name of Managing partner :

3. Name of other partners :

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

APPLICATION FOR PREQUALIFICATION

C. In the case of Company

1. Whether Private Limited or Public Limited

Company :

2. Name of Managing Director :

3. Name of other Directors :

D. a) Experience in the field (in years):

b) No. of major installations of similar works completed successfully in India, specify.

Enclose 3 completion certificates from the client certified that the similar Diesel Generator are installed and commissioned at their site successfully and is working satisfactorily. The client list shall be enclosed. (Cost of work not less than Rs. 50 Lakhs for each work) executed during the last 3 years.

Note: Details to be furnished in **SCHEDULE D**

E. Total No. of ongoing installations of similar works.

Note: Details to be furnished in **SCHEDULE E**

i) If so, give the period and details.

F. Annual turn over of the bidder :

during the last 3 years

(Refer Schedule B)

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

APPLICATION FOR PREQUALIFICATION

G. Tax registration details (domestic vendors)

(a) CST No. / VAT No.

(b) TIN No.

H. Technical Specification: in **SCHEDULE F** (filled and enclosed)

I. Acceptance Form in **SCHEDULE G**

J. CERTIFICATE as per **SCHEDULE H**

I/We hereby certify that the details given in the application form are correct to the best of my/our knowledge. I /We have no objection in contacting any of our clients for reference.

Place:

Signature

Date:

Name and address of the bidder with seal

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

DETAILS OF MAJOR INSTALLATIONS (Min 2Nos.) OF SIMILAR WORK COMPLETED SUCCESSFULLY IN INDIA BY THE TENDERER AS PRIME CONTRACTOR DURING THE LAST 3 YEARS

| Sl. No. | Name of Client with full address, telephone numbers and nature of work | Details of Installation | Value of works completed | Period of Completion with dates (in months) |
|---------|------------------------------------------------------------------------|-------------------------|--------------------------|---------------------------------------------|
| | | | | |

THE TENDERER SHOULD HAVE COMPLETED 2 NOS. OF SIMILAR WORKS IN THE LAST 3 YEARS.

SIGNATURE OF BIDDER WITH SEAL

| TOTAL NUMBER OF ONGOING INSTALLATIONS OR ORDERS IN HAND FOR SIMILAR WORKS | | | |
|----------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|-----------------------|
| Sl. No. | Name of Client with full address, telephone numbers | Order details such as quantity, completion time | Value of works |
| | | | |

SIGNATURE OF BIDDER WITH SEAL

SCHEDULE F

(TO BE FILLED BY THE BIDDER)

DETAILED TECHNICAL PARTICULARS FOR 725/750KVA-LT DIESEL GENERATOR SET

| | MODEL | MAKE |
|------|----------------------------|-------------|
| / | Engine | |
| | | |
| 1 | Make | |
| 2. | Type | |
| 3. | No. Of cylinders | |
| 4. | Arrangement of cylinders | |
| 5. | Bore and stroke | |
| 6. | R.P.M. | |
| 7. | Method of starting | |
| 8. | Compression pressure | |
| 9. | Compression ratio | |
| 10 | Max. cylinder pressure | |
| 11 | Piston speed | |
| 12 | Fuel injection type | |
| 13 | Aspiration method | |
| 14 | Fuel injection pressure | |
| 15 | Lubricating oil system | |
| 16 | Lubricating oil pressure | |
| 17 | Fly wheel | |
| i) | Dia | |
| ii) | Weight | |
| iii) | Is it balanced dynamically | |
| 18 | Cyclic variation | |
| 19 | Time required for starting | |
| 20 | Type of governor | |

| | | |
|-----------------------|-----------------------------------------|--|
| 21 | Guarantee performance of governor | |
| a) | Permanent variations with | |
| i) | Full load thrown off | |
| ii) | Full load thrown 'on' | |
| | | |
| b) | Temporary variations with | |
| i) | Full load thrown off | |
| ii) | Full load thrown 'on' | |
| | | |
| 22 | Head speed regulation limits | |
| 23 | Fuel oil recommended | |
| 24 | Lubrication oil recommended | |
| 25 | BHP at site at output shaft/coupling | |
| 26 | Overload capability | |
| i) | Full load | |
| ii) | Half load | |
| 27 | Mechanical efficiency | |
| 28 | Standard mounting accessories on engine | |
| 29 | Safety shutdown provision | |
| 30 | Direction of rotation | |
| 31 | 2 stroke or 4 stroke | |
| 32 | Type of cooling at sump capacity | |
| 33 | Oil | |
| 34 | Any other data | |
| II. Alternator | | |
| 1 | Make | |
| 2 | Type | |

| | | |
|-----|-------------------------------------------------------|--|
| 3 | Governing specification | |
| 4 | Full load output in KVA | |
| 5 | Full load output in KW at 0.8 | |
| 6 | Enclosures | |
| 7 | Speed/frequency | |
| 8 | No. of phases | |
| 9 | Is neutral brought out | |
| 10 | Voltage between phase/neutral | |
| 11 | Regulated band of voltage | |
| 12. | Current carrying capacity of windings | |
| 13. | Percentage imbalance permissible | |
| i) | full load | |
| ii) | other loads | |
| 14 | Sanctioned over capacity at maximum ambient temp, | |
| 15 | Short time overload | |
| 16, | Efficiency | |
| 17 | Temporary over load after full load run for 12 months | |
| 18 | Insulation starter | |
| 19. | Insulation of rotor | |
| 20. | Excitation method | |
| 21 | Excitation amps at full load | |
| 22. | Excitation voltage | |
| 23 | Air gap between starter & rotor | |
| 24 | Exciter type | |
| 25 | Specification for exciter | |
| | | |

| | | |
|-------------------------|--------------------------------------------------------------------------|--|
| III | General | |
| 1 | Length of set over all x width overall | |
| 2 | Weight of set overall | |
| 3 | Head room needed for lifting/servicing | |
| 4 | Weight of alternator | |
| 5 | Weight of engine | |
| 6 | Weight of heaviest part handled | |
| 7 | Direction of rotation | |
| 8 | Standard accessories | |
| 9 | Radiator / Cooling Tower make & type | |
| 10 | Fan dia. | |
| 11 | C.F .M. of fan static pressure | |
| 12 | R.P.M. of fan/type of drive | |
| 13 | HP absorbed by run | |
| 14 | HP of motor drive in the case of independent motor and its specification | |
| 15 | Details of other major unit assembled on set | |
| 16 | Capacity of daily service tank | |
| 17 | Size of service tank | |
| IV Control panel | | |
| | | |
| 1 | Make | |
| 2 | Type | |
| 3 | Overall dimensions (L x B x H) | |
| 4 | Finish | |
| 5 | Sheet metal size | |

| | | |
|------------|----------------------------------------------|--|
| 6 | Make and type of contactors/circuit breakers | |
| 7 | Make and type of instruments | |
| 8 | Make and type of switch fuse units | |
| 9 | Other facilities incorporated | |
| 10 | Details of powder coating in panels | |
| 11. | Electrical Works | |

A detailed drawing of DG set having all dimensional details shall be furnished by the manufacturer along with GTP.

SIGNATURE OF BIDDER WITH SEAL

ACCEPTANCE FORM

(To be submitted in the letter pad of the firm indicating full name and address, telephone & fax numbers etc.)

From

To

JOINT GENERAL MANAGER (PURCHASE)
HLL LIFECARE LTD
PEROORKADA,
THIRUVANANTHAPURAM – 695 005
KERALA, INDIA

Dear Sir,

I / We, hereby offer to supply/test/commission the equipment as detailed in schedule hereto or such portion thereof as you may specify in the acceptance of Bid at the price given in the price bid and agree to hold this offer open for one year from the date of bid opening prescribed by the Purchaser. I/We have understood the terms and conditions mentioned in the invitation for bid and Conditions of Contract furnished by you and have thoroughly examined the specifications quoted in the bid document hereto and are fully aware of the nature of the scope of work required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above. **I/We adhere to complete all supply and installation works with in a period of 45 days from the day of receiving the purchase order/LOI.**

Yours faithfully,

SIGNATURE OF BIDDER WITH SEAL

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA, THIRUVANANTHAPURAM-695 005, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

1. The Tender should be completed in all respects. Incomplete tenders are liable to be rejected.
2. Unsealed Tenders received are liable to be rejected and this will be at the sole risk of the Tenderer.
3. The tender is liable to be suspended or cancelled at anytime at the discretion of the company without assigning any reason.

In the event of placing orders: -

- a. In tenderer shall return one copy of order signed and sealed as a token of acceptance.
- b. In case of rejection, the equipment should be taken back and replaced at yours risk and cost within 14 days of intimation from HLL.
- c. A certificate confirming that the equipment offered is environment friendly i.e., non-hazardous to the environment is to be enclosed with the Technical bid.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

d. The supplier agrees to supply strictly as per the specification mentioned in the order. HLL reserves the right not to receive the goods beyond the delivery date given in the order(max 60 days).

e. **Liquidated damages for delayed supply:-** The parties have to abide by delivery schedule given in the supply order strictly. Penalty for delay @ 0.5% value of the materials per week of delay subject to a maximum of 7.5% of the value of the supply order will be imposed, if accepted by the Company after the stipulated delivery period.

g. Payment Terms :-

a) 70% of the value of supply shall be paid against supply and acceptance of equipment & accessories by HLL.

b) 20% will be released after successful installation and commissioning

c) 10% against submission of Performance Bank Guarantee for 10% of contract value. The PBG should be in the form of BG /Demand Draft in favour of HLL Lifecare Ltd, Trivandrum, India valid for one year from the date of installation and commissioning.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

WARRANTY

The supplier shall warrant that the goods supplied /WORK COMPLETED under the contract shall have no defect arising from design, materials or workmanship. Period of warranty shall be twelve months from the date of installation and commissioning as certified jointly by the supplier and the Purchaser.

INSURANCE

The goods supplied under the contract, shall be fully insured by the supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.

DELIVERY/COMPLETION PERIOD

Time being the essence of the Contract, the delivery and completion period stipulated should be strictly adhered to. The Supplier should deliver the equipments as per the Contract within 2 months from the date of award of contract.

Delivery of the goods shall be made by the supplier in accordance with the terms specified by the purchaser in the notification of award.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

INSPECTION AND TESTS

The purchaser or its representatives shall have the right to inspect the machinery and accessories and/ or to test the machinery to confirm if they match the specifications as per the order. The purchaser shall notify the supplier in writing of the identity of the representatives for the purposes.

The inspections and tests may be conducted on the premises of the supplier or at point of delivery and/or at site. Where conducted on the premises of the supplier, the Supplier should make available all reasonable facilities including tools, instruments, apparatus, equipment, facilities, and also access to drawings and production data, to enable the Purchaser's nominee to carryout such inspection/tests without obligations to the purchaser.

Goods under the Contact shall not be despatched unless they have been finally inspected by the purchaser or inspection waived and despatch specifically authorized in writing.

For imported goods, Purchaser reserves the right for pre-shipment inspection of the equipment by the Purchaser and/or by a third party.

Should any inspected or tested goods fail to conform to the specifications and performance, the purchaser may reject then and the supplier shall either replace the rejected goods or make all alternations necessary to meet specification requirements free of cost to the purchaser, within a period of 15 (fifteen) days of intimating such rejection.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

The purchaser's right to inspect, test and, where necessary, reject the goods after the good's arrival at site shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by purchaser or its representatives prior to the good's dispatch from the place of manufacture.

Notwithstanding any such inspection/tests carried out at Supplier's works, the equipment shall be accepted only after receipt and successful commissioning at the site and the inspection/tests carried out at Supplier's works will not relieve his contractual obligations for conforming to the specifications under the contract.

PACKING

The supplier shall provide such packing of the goods as is required to prevent damage or deterioration during transit to site. The packing shall be sufficient to withstand, without limitation, rough handling during transit and open storage.

TRANSPORTATION

Bidders are required to supply equipments at our factory premises Peroorkada Trivandrum. The freight and Insurance charges are to be indicated in the rate schedule.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

SPARES

The supplier shall offer unit prices valid for two years after the warranty period separately for such essential spare parts and accessories which are recommended as necessary for 2 years and maintenance after warranty period. HLL reserves the right, however, to order any of these spares or increase or decrease the quantity as it may finally decide at the rate given in the tender.

The jurisdiction of any dispute, suits and proceedings arising out of this tender shall be only in the court of Thiruvananthapuram, Kerala, India.

Completion time

The party should complete supply , installation, testing and commissioning of the DG Set meeting all specification and requirements as mentioned in this Tender Document within 45 days from the date of placing Purchase order/LOI.

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

TERMS & CONDITIONS

INDEMNITY CLAUSE:

If the supplier fails to execute the order within the time prescribed for the delivery of goods ordered or violates or infringes the existing rates as agreed to as mentioned in the supply order, the supplier shall and will indemnify the company against all losses or damages whatsoever to be incurred or sustained including the legal cost or expenses incurred by the company by reason of non-delivery of goods at agreed quantity and rate within the time specified in the supply order. The company will initiate legal action if the supplier fails to execute the supply order as per the schedule in the supply order for the actual loss suffered. Responsiveness of the Bid shall be at the discretion of HLL.

Bid pronounced Non Responsive by HLL shall be summarily rejected. The decision of HLL will be final and no correspondence of this shall be entertained.

We have read and understood the above conditions and agree to abide by the same.

PLACE:

NAME AND SIGNATURE OF THE APPLICANT

DATE:

(WITH OFFICE SEAL)

SCHEDULE - I

Page 1 of 1

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

CERTIFICATE

I / we hereby certify that the information given with this bidding document is correct. If, at any stage, it is found to be incorrect, I / we understand that the contract will be liable to be terminated and action could be taken against me/us by the Company for damages.

SIGNATURE(S) OF BIDDER WITH SEAL

(To be submitted in the letter pad of the firm indicating full name and address, telephone & fax numbers etc.)

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

PRICE BID

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 725/750KVA-LT DIESEL
GENERATOR SET AT PEROORKADA FACTORY, TRIVANDRUM, KERALA, INDIA**

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

CONTENTS OF PRICE BID FORMS

1. SCHEDULE J - RATE SCHEDULE

HLL LIFECARE LIMITED
(A Government of India Enterprise)
PEROORKADA
THIRUVANANTHAPURAM-695 005, KERALA, INDIA

TENDER NO. : PUR/08/R1/PQ/ DG SET 725/750 KVA /2013-14

PRICE BID

RATE SCHEDULE FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF
725/750KVA-LT DIESEL GENERATOR SET AT PEROORKADA FACTORY, TRIVANDRUM,
KERALA, INDIA

| PRICE PARTICULARS | PER UNIT | REMARKS |
|--------------------------------------|----------|---------|
| | (IN RS.) | |
| BASIC PRICE | | |
| EXCISE DUTY (% TO BE FURNISHED) | | |
| CESS ON EXCISE DUTY | | |
| CST/VAT (% TO BE FURNISHED) | | |
| FREIGHT | | |
| INSURANCE | | |
| INSTALLATION & COMMISSIONING CHARGES | | |
| OTHERS, IF ANY (PLEASE SPECIFY) | | |
| TOTAL* | | |
| (Rupees.....) | | |

NB: In case of discrepancy between unit price and total price, the unit price shall prevail

Payment Terms:

SCHEDULE – J

Page 2 of 2

MINIMUM TIME REQUIRED TO START THE }
SUPPLY AFTER RECEIPT OF LETTER OF }
INDENT/SUPPLY ORDERS }

TIME REQUIRED FOR INSTALLING, TESTING &
COMMISSIONING

VALIDITY: ONE YEAR

PLACE: NAME AND SIGNATURE OF THE TENDERER

DATE: (WITH OFFICE SEAL)