

QUOTATION DOCUMENT

QUOTATION FOR SUPPLY & ERECTION OF GSS DUCTING AND INSULATION WORKS IN  
ELECTRONIC TESTING AREA IN KAKKANAD FACTORY, COCHIN



HLL Lifecare Limited  
(A Government of India Enterprise)

ID DIVISION-ANNEX OFFICE,  
USHUS, T.C.7/1541, JYOTHI NAGAR  
THIRUMALA P.O  
THIRUVANANTHAPURAM -695006  
Ph: 0471 2350481

**NOTICE INVITING QUOTATION**

Sub: Supply & Erection of GSS ducting and Insulation at HLL Kakkanad facility at CSEZ in Electronic testing area in Kakkanad Factory, Cochin

HLL Lifecare Ltd, a Government of India Enterprise, invites sealed and super scribed quotations from interested contractors having minimum three years' experience in the relevant field for the above said work

1. A complete set of quotation document can be downloaded the website of HLL Lifecare Ltd ([www.lifecarehll.com](http://www.lifecarehll.com)) till 27.04.2015 at free of cost.
2. The quotation document will be available for download up to 10.00 am. on the day of the opening of the bids.
  - a) Issue of quotation document - From 21.04.2015 to 27.04.2015
  - b) Last date and time of receipt of bids - 27.04.2015 up to 11.00 am
  - c) Date and time of opening of bids - 27.04.2015 at 11.30 am

**Address to which the offers are to be submitted:**

Unit Head

HLL Kakkanad Facility

Plot 16/A-1, Cochin Special Economic Zone

Kakkanad, Cochin-682037

Tel:+91-484-2413381

Sd/-

Chief Project Manager (Electrical)  
HLL Lifecare Ltd  
ID Division-Annexe Office  
Ushus, T.C.7/1541  
Jyothi Nagar, Thirumala P.O  
Thiruvananthapuram-695006

## GENERAL TERMS & CONDITIONS

1. The estimated cost of the work is **Rs. 5,26,566.00** (Rupees Five Lakh Twenty Six Thousand Five Hundred and Sixty Six only).
2. Eligibility criteria:
  - Bidders should have minimum three years experience in the relevant field.
3. The schedule of quantities (ANNEXURE-I) is appended. Bidders are advised to go through the entire general terms and conditions of this contract carefully. The scope of works also includes preparation of shop drawings for ducting layout and work shall get it approved by engineer in charge.
4. The filled & duly signed quotations should be submitted to:  
**Unit Head**  
**HLL Kakkanad Facility**  
**Plot 16/A-1, Cochin Special Economic Zone**  
**Kakkanad, Cochin-682037**  
Tel: +91-484-2413381 on or before 11.00 am on 27.04.2015. The quotations will be opened at 11.30 am on the same day in the presence of interested bidders or their authorized representatives who choose to attend at the time of opening of quotation.
5. The work shall be completed within 15 Days from the date of receipt of Work Order or LOI.
6. The quotation for the work shall remain open for acceptance for a period of **90 days** from the date of opening of quotation.
7. The contractor is advised to visit the site before quoting the rates and clarifications if any required can be had from the undersigned before submitting the quotation.
8. Rates quoted should be inclusive of applicable taxes and duties, all cost of materials, tools/equipments/ labour charges, conveyance to site, handling charges, loading and unloading charges, hiring charges, clearing of debris, statutory payments etc complete. The rate should be inclusive of applicable service tax in case the firm is not a corporate entity.
9. HLL reserves the right to accept or reject the Quotation either partially or fully without assigning any reason what so ever.
10. The work should be carried out without causing any inconvenience to the public and shall ensure that no damages are caused to the existing site premises.
11. During the execution of work the contractor or authorized representative should be present at site.
12. The works shall be carried out in accordance with the approved shop drawings and any modifications shall be brought to the notice of the engineer in charge and shall be approved before proceeding.

13. All Materials, Equipments/Tools required for the work should be arranged by the contractor and brought to site for the timely completion of the work.
14. The materials used shall be as per CPWD specification/ASHREA codes and of good quality.
15. The Contractor has to arrange necessary insurance coverage for the machine, workmen etc. deployed by him. He shall arrange all safety measures to protect his workmen and also the properties of HLL.
16. **Penalty for delay:** Penalty shall be imposed at 1% per day to a maximum of 10% of the contract value for any delay committed by the contractor in completing the work as per the order.
17. **Measurement & Payment terms:** The method of measurement of completed work shall be in accordance with the standard measurement. Payment will be made on satisfactorily completion of work as per the order. The method of measurement of completed work shall be in accordance with the standard measurement. Interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the HLL. All such interim payments shall be regarded as payment by way of advances against final payment only, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re erected. Any certificate given by the engineer in charge relating to the work done or materials delivered forming part of such payment, may be modified, or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or material so which it relates is /are in accordance with the contract and certificate. Any such interim payment,/any part there of shall not in any respect conclude, determine or affect in any way powers of the engineer in charge under the contract or any of such payment s be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.
18. The Quantity shown in the schedule is an approximate estimated quantity. No extra rate will be entertained if the quantity exceeds due to the site condition while executing the work.
19. Final payment shall be paid only after clearing the site as per direction of Engineer-in-charge.
20. **Settlement of Dispute:** Arbitration shall not be the means of settlement of dispute or claims or anything on account of this Contract. If any disputes and difference arise out of the contract, they are to be settled by a civil court at Thiruvananthapuram.
21. The bidder shall sign and seal on all the pages of these documents and in BOQ.

## TECHNICAL TERMS & CONDITIONS

All ducts shall be fabricated from galvanized sheet of 120 gm/sq.m (Class VIII) conforming to IS 277-1962 (revised). The fabrication of duct shall strictly conform to ISS 655-1963. The thickness of the sheet shall be as follows:

Maximum size (mm)	Thickness of sheet(mm)	Type of transverse joint connections	Bracing (if any)
Upto 300	0.63 24 G	S-drive, pocket or bar slips, on 2.5m centres	None
301 to 600 601 to 750	0.63 24 G	S-drive, pocket or bar slips, on 2.5m centres S-drive, 25mm pocket or 25mm bar slips on 2.5m centres drive	None 25x25x3mm angle 1.2m from joint
751 to 1000 1001 to 1500	0.80 22 G	40x40mm angle connections, or 40mm pocket or 40mm bar slips, with 35x3mm bar reinforcing on 2.5m centres	40x40x2mm angle 1.2m from joint
1501 to 2250	1.00 20 G	40x40mm angle connections, or 40mm pocket or 40mm bar slips, 1 m maximum centres with 35x3mm bar reinforcing	40x40x3mm angle / 40x40x3mm angle 60mm from joint.
2251 & above	1.25 18 G	50x50mm angle connections, or 40mm pocket or 40mm bar slips, 1 m maximum centres with 35x3mm bar reinforcing	40x40x3mm angle / 40x40x3mm angle 60mm from joint.

The following points shall be also taken into account while fabrication & erection of ducts.

1. All ducts shall be as per gauges, etc. indicated on the approved drawings.
2. All ducts of size larger than 450 mm shall be cross broken.
3. All ducts shall be supported from RCC/truss by means of MS rods, angles, etc and the distance between supports shall not exceed 2m.
4. The ductwork shall not extend outside and beyond height limits as specified on the approved drawings.
5. All ducts shall be reinforced, if necessary and must be secured in place so as to avoid shifting of the ducts on its supports.
6. The vanes shall be provided and securely fastened to prevent noise and vibration.
7. The rubber gasket shall be installed between duct flanges in all connections and joints.
8. The ductwork can be modified in consultation with Purchaser to suit actual conditions in the building.
9. All flanges and supports should be primer coated on all surfaces before erection and painted with aluminum paint thereafter.
10. All sheet metal gauges and fabrication procedure as given in BIS specification shall be strictly adhered to. The BIS specification shall form part of this contract.
11. Necessary wall openings for ducting shall be carried out by the HVAC contractor according to the shop drawings and same shall be properly closed with mortar after duct routing.

External thermal insulation shall be provided as follow:

12. The thickness of Nitrile rubber shall be as shown on drawing or identified in the schedule of quantity. Following procedure shall be adhered to:
13. Duct surfaces shall be cleaned to remove all grease, oil, dirt, etc. prior to carrying out insulation work. Measurement of surface dimensions shall be taken properly to cut closed cell elastomeric rubbers sheets to size with sufficient allowance in dimension.
14. Material shall be fitted under compression and no stretching of material shall be permitted. A thin film of adhesive shall be applied on the back of the insulating material sheet and then on to the metal surface. When adhesive is tack dry, insulating material sheet shall be placed in position and pressed firmly to achieve a good bond. All longitudinal and transverse joints shall be sealed as per manufacturer recommendations. The adhesive shall be strictly as recommended by the manufacturer.

**Approved Makes**

GSS Sheet - TATA/ JINDAL/SAIL  
Nitrile Rubber Insulation – Armaflex/K Flex

Sd/-  
Chief Project Manager (Electrical)