

Terms and Conditions:

1. Delivery:

On staggered basis, Gaseous Helium (GHe) should be supplied in supplier's quads within a period of six months from the date of issuing purchase order. GHe shall be supplied to ISRO Propulsion Complex (IPRC), Mahendragiri, Tirunelveli dist., Tamil Nadu.

2. Gaseous Helium shall be supplied in supplier's own quads only. Taking into account of transportation time between supplier's works & IPRC, Mahendragiri supplier shall allot required number of GHe quads to meet the requirement as per purchase order.
3. The supplier shall make arrangement for transportation of quads from their Ex-works to IPRC, Mahendragiri based on IPRC's request. Each trip shall consist of transportation of filled GHe quads from supplier's works to IPRC, Mahendragiri and empty quads returned back from IPRC, Mahendragiri to supplier's works.

4. Quantity:

a) The unit of measurement of GHe quantity supplied shall be "Cum" i.e. Cubic meter standardized at 0 bar (g) and 27 deg C.

b) The quantity of GHe in quad shall be calculated primarily without including compressibility factor, the calculation of quantity shall be as follows:

The quantity of GHe in a quad shall be calculated by multiplying the water capacity of the cylinder, number of cylinders, and gauge pressure @ 27 deg C. Example: The quantity of GHe in a quad having 54 cylinders with water capacity of each 50 liters and GHe pressure of 200 barg @ 27 deg C is 540 Cum.

c) Alternatively, if the bidder quotes unit price included the compressibility factor, the calculation is as follows:

The quantity of GHe in a quad shall be calculated by multiplying the water capacity of the cylinder, number of cylinders, and gauge pressure @ 27 deg C divided by compressibility factor. Example: The quantity of GHe in a quad having 54 cylinders with water capacity of each 50 liters and GHe pressure of 200 barg @ 27 deg C and compressibility factor of 1.098911 is 491.39 Cum.

d) The bidders shall explicitly mention in the bid whether the price quoted is based on "Quantity including compressibility factor" or "Quantity excluding compressibility factor".

In case the bidder quotes price is based on "Quantity including compressibility factor", the purchaser shall convert it to price based on "Quantity excluding compressibility factor" for comparison with other bidders.

e) If GHe temperature is more or lesser than 27 deg C, the temperature correction factor (linear) will be accounted for calculating the exact supplied quantity. Compressibility factor variation on account of temperature variation with respect to 27 deg C can be ignored.

f) Any other calculation method of quantity measurement of GHe by taking different compressibility factor is not acceptable. The offer will not be considered for evaluation.

5. **Quality:**

The quality of the product shall be confirmed by analyzing GHe in the respective quad after filling at supplier's works and the quality certificate shall be sent along with each consignment.

The quality of GHe in quads shall be analyzed at Cryogenic Fluids Analytical Laboratory (CFAL) at IPRC, Mahendragiri. If any deviation in specification is found out at IPRC, Mahendragiri, GHe in the particular quad shall be rejected. The transportation charges for receiving the quad with impure GHe at IPRC, Mahendragiri and sending back the rejected quad to supplier's works shall be deducted from supplier's account.

6. The supplier should have their own Gaseous Helium bottling plant with analytical equipments and sufficient numbers of quad to meet our peak requirements in time. The quads will be retained in IPRC, Mahendragiri for a maximum period of 7 days excluding Saturday & Sunday from the date of delivery at IPRC, Mahendragiri.

7. **LD Clause:**

If the supply of GHe in quads as requested by Department is not made within 15 days from the date of request, LD clause is applicable for the delayed period of delivery. If delivery is delayed beyond the stipulated delivery period [LD@0.5%](#) per week or part there of shall be recovered subject to a maximum of 10% of order value of undelivered quantity against each load requested.

8. Payment terms: Payment will be made on pro-rata basis within 30 days from the date of receipt & acceptance of Gaseous Helium at IPRC, Mahendragiri.
9. Quantity variation: Upto \pm 540 Cu.m of the total order quantity.
10. PBG/Guarantee is not required since GHe is consumable and analyzed and accepted at party's site as well as at IPRC, Mahendragiri for each lot.

11. **Splitting of quantity/parallel contracts:**

The purchase shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered. Further, the purchaser reserves the right to split the contract quantity between the suppliers. The tender quantity of gaseous Helium (30,000 cu.m) will be split-up as 60:40 ratio i.e., 18,000 Cum.:12,000 Cum. L1 bidder will be awarded to supply 18,000 Cum. of GHe and L2 bidder will be awarded to supply 12,000 Cum of GHe after matching with L1 bidder's landing cost. If L2 bidder is not accepting the counter offer to match with L1 bidder's landing cost, chance will be given to L3, L4, L5 and so on suppliers. If L2, L3, L4, L5 and so on are not accepting the counter offer, the entire quantity shall be ordered to L1 party.

12. **Pre-qualification criteria:**

- Suppliers should have their own Gaseous Helium bottling plant.
- Suppliers should have sufficient numbers of quad to meet our peak requirements in time.
- PESO approval for GHe quads and copies shall be submitted.
- GHe should be supplied in suppliers own quads.