

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO PROPULSION COMPLEX (IPRC)
MAHENDRAGIRI**

Tender for Bellow Sealed EP Globe Valve for GH2 service with spare kits

Bids to be submitted online

Tender No.: IPRC/PURGP1/IP202500051301 dated 20-05-2025

A. Tender Details

Tender No :	IPRC/PURGP1/IP202500051301
Tender Date :	20-05-2025
Tender Classification:	GOODS
Purchase Entity :	PURGP1
Centre :	ISRO PROPULSION COMPLEX (IPRC)

Bellow Sealed EP Globe Valve for GH2 service with spare kits

This is a two-part bid. Price details shall NOT be mentioned in technical Bid/attachments, failing which the offer will be considered as invalid.

This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno Commercial Bid while price shall be indicated only in the Price Bid.

1.Foreign vendors are not permitted to quote.

2.Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid.

a. The percentage of local content with documentary proof should be specifically mentioned in the offer. Format for Self Certification under Preference to "MAKE IN INDIA" Policy - attached, without which it will be summarily rejected.

b. Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.

3.MSE Preference is applicable only against the claim of the manufacturer and production of documentary evidence by the manufacturers for the registration of particular item under MSE.

4.Last minute clarification on tenders will not be entertained.

5.This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.

6.Item as per the tender is eligible for Concessional rate of GST @ 5% as per Notification No. 07/2018-ÂÂIntegrated Tax (Rate) dated 25.01.2018 and Notification No. 06/2018-ÂÂCentral Tax (Rate) dated 25.01.2018 along with Notification No. Ms No. 18 dated 25.01.2018. Relevant Certificate shall be issued as and when required.

7.Acceptance of Guarantee / Warranty, Performance Bank Guarantee, Security Deposit & Liquidated Damages are mandatory. Bank Guarantee towards Security Deposit shall be submitted if the P.O. value exceeds Rs. 5.00 Lakhs.

8.To ensure due execution of the Purchase Order, Vendor shall submit an interest free Security Deposit equivalent to 5% of the order value within 15 days from the date of receipt of Purchase Order if the PO value exceeds Rs. 5.00 Lakhs. Security Deposit can be submitted by way of Bank Guarantee from any Nationalized/ Scheduled Bank in favor of Accounts Officer, IPRC. The Bank Guarantee should be valid for 60 days beyond the scheduled delivery date. Security Deposit can be submitted by way of Fixed Deposit Receipt (lien marked to Accounts Officer, IPRC)/Demand Draft in favor of Accounts Officer, IPRC.

9. In order to ensure due performance of warranty obligation, Vendor shall submit a Performance Bank Guarantee (PBG) equivalent to 3% of the order value. The PBG can be submitted by way of Bank Guarantee (as per format enclosed on ÂÂ1 200/- stamp paper) from any Nationalized/Scheduled Bank in favor of Accounts Officer, IPRC. The Bank Guarantee should be valid for 60 days beyond the scheduled warranty period. In case the warranty period is extended due to any reasons, the validity of the Bank Guarantee shall also be extended suitably. PBG can be submitted by way of Fixed Deposit Receipt (lien marked to Accounts Officer, IPRC)/Demand Draft in favor of Accounts Officer, IPRC also. The PBG will be forfeited in case of non-performance of warranty obligation.

A.1 Tender Schedule

Bid Submission Start Date :	20-05-2025 17:00
Bid Clarification Due Date :	30-05-2025 10:00
Bid Submission Due Date :	19-06-2025 10:00
Bid Opening Date :	19-06-2025 10:05
Price Bid Opening Date :	23-06-2025 10:00

B. Tender Attachments

Technical Write-up/Drawings

Document : ANNEXURE - A

Instructions To Vendors

2. STANDARD TERMS AND CONDITIONS (DOS PM: 20)

1. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. 1 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

2. DELIVERY:

(a) The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b) Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i) to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or

during which the delivery of such store may be in arrears subject to a maximum of 10%, or

(ii) to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii) to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 2 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

3. DISPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on "said to contain" basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

4. ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser.

5. EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 2 thereof.

6. GUARANTEE & REPLACEMENT:

- (a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.
- (b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.
- (c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.
- (d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.
- (e) The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.
- (f) To fulfill guarantee conditions outlined in clause 6 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 3% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.
- (g) All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser site.

(h) Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in para 6 (b) & (c) shall be the guarantee period plus two months.

7. PACKING FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

8. PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

9. REJECTED STORES:

Rejected stores will remain at destination at the Contractor risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

10. SECURITY DEPOSIT(SD):

The Supplier shall provide Bank Guarantee for an amount equivalent to the 3% (Three PERCENT) of the total Order value towards Security Deposit for the due performance of the Purchase Order. The Security Deposit can be submitted in the form of Bank Guarantee (format enclosed) or Fixed Deposit receipt obtained from any Nationalized/ Scheduled Bank and it shall be kept valid for a period of sixty days beyond the date of completion of the Purchase Order. This Security Deposit will be returned to the Supplier only upon successful completion of all the contractual obligations or shall be adjusted/ forfeited against non-fulfilment of any of the contractual obligations. The Security Deposit shall be submitted within 30 days from the date of receipt of Purchase Order.

11. TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

12. The Purchaser shall mean the President of India or his successors or assigns.

3. STANDARD TERMS AND CONDITIONS (DOS PM:19)

1. Arbitration in the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase Office or of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

2. Corrections, if any, in the quotation must be attested. All amounts shall be indicated both in words as well as in figures. When there is difference between the amount quoted in words and figures, the amount quoted in words shall prevail.

3. Guarantee: The stores offered should be guaranteed for a minimum period of twelve months against defective stores design, operation or manufacture. For defects noticed during the guarantee period, replacement/repair should be arranged free of cost within a reasonable period of such notification. In cases where our specifications call for a guarantee period more than 12 months specifically, then such a period shall apply.

4. If the arbitrator is a person appointed by the Head of the Purchase Office, In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, shall be lawful for the Head of the Purchase Office either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing arbitrator subject, as aforesaid, to the Arbitration and Conciliation Act, 1996, and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

5. If the arbitrator is the Head of the Purchase Office :

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor in office either to proceed with the reference himself for to appoint

another person as arbitrator, or In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Purchase Office to appoint another person as arbitrator.

6. Late Tenders will not be considered.

7. Packing and Forwarding: The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air, to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense to the Contractor.

8. Payment terms are full payment within 30 days from the date of receipt and acceptance of material ordered. Our Bankers are State Bank of India, Mahendragiri.

9. Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two systems of unit must be furnished.

10. Quotation should be valid for at least 90 days from the date of opening of the tender.

11. Sales Tax and/or other duties/levies, where legally leviable and intended to be claimed, should be distinctly shown separately in the tender.

12. Specifications: Stores offered should strictly conform to Purchaser's specifications. Deviations, if any, shall be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotation. Test certificate, wherever necessary, should be forwarded along with supplies. Wherever options are called for in our specifications, the tenderer should address all such options, wherever specifically mentioned by us, and the tenderer could suggest changes to specifications with appropriate response for the same. Even in such case, the tenderer should state why he cannot meet our specifications and why he is suggesting the change.

13. Successful tenderer will have to furnish in the form of a Bank Guarantee or in any other form as called for by the Purchaser towards adequate security for the materials/property provided by the purchaser for the due execution for the Contract.

14. TERMS AND CONDITIONS OF TENDER:

Price quoted should be on the basis of FOR IPRC, Mahendragiri or delivery at site

The Purchaser will not pay separately for transit insurance, and the risk and cost during transit shall be exclusively the responsibility of the Contractor and the purchaser shall pay only for such

stores as are actually received in good condition in accordance with the Contract.

15. The Contractor shall at all times indemnify the Purchaser against all claims which may be in respect of the stores for infringement of any right protected by Patent, Registration or design or Trade Mark and shall take all risks of accidents or damage which may cause a failure of the supply from whatever causes arising and the entire responsibility for the sufficiency of all means used by him for the fulfillment of the Contract.

16. The Purchaser reserves the right to accept or reject any quotation fully or partly without assigning any reason thereof.

17. The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed not later than the date specified therein, and failure to do so, without adequate justification, may involve cancellation of the Contract at the discretion of the Purchaser.

18. Where counter terms and conditions/printed or cyclostyled conditions of sale have been offered by the tenders, the same shall not be deemed to have been accepted by the Purchaser unless the Purchaser's specific written acceptance thereof is obtained.

4. GENERAL TERMS AND CONDITIONS:

1. a) Facility of after sales service to be confirmed with details.

b) Permanent Account Number (PAN) allotted by Income-Tax authorities shall be furnished with documentary proof. Otherwise, documentary proof for having applied for PAN should be provided. Also PAN should be in the name of Company/Firm, if quoted by the Company/Firm and in the name of Individual, if quoted by individual.

c) GST No.

d) Local office in Tirunelveli / Nagercoil is preferable.

Note: (b) to (d) are applicable for Indian Companies only.

2. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.

3. GST where legally leviable and intended to be claimed should be distinctly shown separately in the tender.

4. Guarantee / Warranty period as applicable shall be indicated, along with the quote.

Guarantee/Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the contract/purchase order.

5. If an Indian agent submits bid on behalf of the Principal/OEM, the same Indian agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product
6. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
7. In case of imported items (stores), Ex-Works/FOB/FCA prices should be indicated. In case of indigenous stores the quotation should be on FOR-Destination / Door delivery basis.
8. In case the vendor falls in the category of Small Scale Industries (SSIs), who are registered with NSIC, Public Sector Undertakings (PSUs) and Micro & Small Enterprises (MSMEs) the same shall be mentioned in their quote for evaluation.
9. Indian Agents while quoting on behalf of their principals shall attach necessary authorization letter from their Principals along with the bid.
10. IPRC reserves the right to accept or reject any quotation in full or part thereof by recording the reasons.
11. IPRC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.
12. ISRO PROPULSION COMPLEX (IPRC) is exempted from payment of Customs Duty under Notification No. 50/2017-Customs dated 30.06.2017 and as amended by Notification No.5/18 Customs dt:25/1/18. For imported items IPRC will provide Customs Duty Exemption Certificate for availing Concessional CD and IGST.
13. Last minute request for the extension of the due date w.r.t. any technical issue at Vendors/Suppliers side will not be considered. You may submit your quotation online well in advance instead of waiting till the last date to ensure that Internet problem and network condition does not cause problem.
14. LIQUIDATED DAMAGES:Delivery is the essence of the contract. Items shall be delivered within stipulated period. If delivery is delayed beyond the stipulated delivery period mentioned in the purchase order or any extension thereof, an amount equal to 0.5% per week shall be recovered, subject to a maximum of 10% of the order value shall be deducted from your bills due.
15. Offers sent through post, telegram, fax, e-mail, courier will not be considered. Partially completed / incomplete tenders shall not be considered.

16. Only authorized dealers/agents or their accredited representatives for original manufacturers have to submit the quotation with documentary evidence.

17. PAYMENT: 100% through RTGS within 30 days from the date of receipt and acceptance of items at our site is the normal payment for Indigenous supply. In the case of direct Import, normal terms of payment are by Sight Draft / Wire Transfer after receipt of items. However, other terms of payment like establishment of Letter of Credit may be considered by the Purchaser on such terms and conditions as may be agreed upon.

18. PERFORMANCE BANK GUARANTEE :

The Supplier shall guarantee the successful and satisfactory performance/commissioning of equipment/machinery under the conditions specified in the Purchase Order. As a performance security, the SUPPLIER shall furnish a performance bank guarantee (in the prescribed format) from Nationalized Bank/Scheduled Bank for an amount equal to the sum of 3% of the order value ensuring the due performance of equipment/machinery in accordance with all the specifications and terms specified in the Purchase Order herein valid for the period of two months beyond warranty period. On due performance, the performance bank guarantee shall be automatically cancelled and returned to the Supplier within 30 days after expiry of the Warranty period.

19. SECURITY DEPOSIT : Security Deposit @ 3% of order value shall be submitted in the form of DD/FDR duly endorsed in favour of Accounts Officer, IPRC or by way of Bank Guarantee (in the prescribed format) within 30 days after receipt of order and valid up to the successful execution of the order.

20. The goods or material offered should be strictly as per our specifications. Change(s) in specifications, if any, should be clearly indicated by the supplier in his quotation. The supplier should also indicate make/type No. of the materials or equipment offered. Vague terms such as Best Indian, Best Indigenous and Imported make should not be used.

21. The offer should be valid for a minimum period of 120 days from the date of Technical bid opening & 90 days from the date of Price Bid opening (in case of two-part tender).

22. The purchaser 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 and the tenderer shall supply the same at the rates quoted.

23. Wherever the tenderer is asked to submit sample for evaluation of tenders, the same shall be submitted along with your quote.

5. LOCAL CONTENT DECLARATION CERTIFICATE FORMAT (in your letter head)GP1 REVISED

1. In line with the Government Public Procurement Order No. P/45021/2/2017-BE-II dtd . 15.06.2017 ,
as amended from time to time,
and as applicable on the date of submission of tender, we hereby certify that , we M/s.
_____ are local supplier meeting the requirement of minimum local content, _____%,
as defined above in the orders for the material against Tender Enquiry No. ____ dtd. ____ .

2. The HSN No. of the item supplied is _____

Percentage of Local value addition , involved in the item are:

- 1.
- 2.
- 3.

3. This is also certified that the following factors are excluded in the above percentage: (strike out which are not applicable)

1. imported item sourced locally from resellers/distributors (value in ____% including tax, if applicable)
2. The license fee/royalties paid/technical charges paid out of India. (value in ____% including tax, if applicable)
3. Repackaged/refurbished/rebranded imported products (value in ____% including tax, if applicable)

4. The details of location at which the value addition will be made is as follows :

5. We also understand that , false declarations will be in breach of code of integrity, under rule 175 (1) (i) (h), of the General Financial Rules, for which a bidder, or its successors can be debarred for up to 3 years under Rule 151 (iii) of the GFR along with such other actions as may be permissible under law.

For (company name)

Authorized Signatory

6. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

2. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including

consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

3. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

4. Model Certificate for Tenders

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered

5. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

C. Bid Templates

C.1 Technical Bid - Bellow Sealed EP Globe Valve for GH2 service with spare kits

1. GLOBE VALVE - 15NB, 900#, Bellow Sealed EP globe Valve

2. GLOBE VALVE - 25NB, 900#, Bellow Sealed EP globe Valve

3. GLOBE VALVE - 50NB, 2500 #, Bellow Sealed EP globe Valve

4. GLOBE VALVE - 80NB, 900 #, Bellow Sealed EP globe Valve

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	TECHNICAL SPECIFICATION OF ELECTRO-PNEUMATICALLY ACTUATED BELLOW SEALED GLOBE VALVES FOR GH2 SERVICE		-		
2	The pneumatically-actuated valve shall comprise valve, actuator and status switches.		-		
3	VALVE TYPE The pneumatically actuated bellow sealed globe valves specifications are given below:		-		
4	1.Quantity	As given in Table – A1	Yes / No / Explain		

5	2. Pattern	Globe	Yes / No / Explain		
6	3. Application	Shut-off valve	Yes / No / Explain		
7	4. Actuation	By electro pneumatic actuation	Yes / No / Explain		
8	5. Fluid medium	As given in Table – A1	Yes / No / Explain		
9	6. Working temperature range	As given in Table – A1	Yes / No / Explain		
10	7. Nominal size	As given in Table – A1	Yes / No / Explain		
11	8. Pressure rating class	As given in Table – A1	Yes / No / Explain		
12	9. Valve coefficient	The valve shall possess a minimum Cv as per the following guidelines: 11d ² for ≤900 class; 10d ² for 1500 class ; 9d ² for ≥2500 class where d is valve size in inch. To be specified by the bidder in the quotation	Yes / No / Explain		
13	10. Permissible leakage rate across body		-		
14	10.1. For bellow sealed valves (BSG)	≤ 1 x 10 ⁻⁶ mbar-lit/sec of GHe	Yes / No / Explain		
15	11. Permissible leakage rate across seat		-		
16	11.1. For BSG valves	≤ 1 x 10 ⁻⁵ mbar-lit/sec of GHe	Yes / No / Explain		
17	12. Guaranteed cycles of operation	5000 cycles	Yes / No / Explain		

18	13. End connection	BW: Butt welding ends as per ASME B 16.9/ 16.25 with pipe stubs as per ASME B 36.19/ 36.10 of 100 mm length each shall be butt welded to the body on either side, the ends of which shall be prepared for butt welding. The butt-welding ends shall be suitable to mate with the interfacing pipe of schedule number as given in Table A1.	Yes / No / Explain		
19	14. Style of construction		-		
20	14.1. Body	With full port (standard bore)	Yes / No / Explain		
21	14.2. Bonnet	Bolted or screwed to body with suitable seals (bonnet shall be top of stem extension)	Yes / No / Explain		
22	14.3. Stem	Non-rotating, rising stem	Yes / No / Explain		
23	14.4. Stem (dynamic) seal		-		
24	14.4.1. For BSG valves	By bellows with redundant gland packing. Between bellows seal and the redundant land packing, a tell-tale indicator pressure gauge port with suitable plug shall be provided.	Yes / No / Explain		
25	14.5. Plug	Renewable (replaceable) from stem with insert	Yes / No / Explain		
26	14.6. Seat	Seat shall be integral with body of material harder than the plug insert.	Yes / No / Explain		
27	14.7. Shut off mode	Bi-directional shut off	Yes / No / Explain		
28	14.8. Flow direction	Flow-to-open (Flow-under-plug)	Yes / No / Explain		
29	15. Material of construction		-		

30	15.1. Body and bonnet	ASTM A 182 F 304L/ 316L/ 321 for nominal size \leq DN40 ASTM A 351 CF3/3M for nominal size \geq DN50	Yes / No / Explain		
31	15.2. Stem, plug, seat, seat insert	ASTM A 479 304L/ 316L/ 321	Yes / No / Explain		
32	15.3. Bellows	Stainless steel 316Ti/ 321/ Hastelloy C276/ Inconel 600/ 625	Yes / No / Explain		
33	15.4. Gland packing	PTFE/ Glass-filled PTFE/ PEEK	Yes / No / Explain		
34	15.5. Plug insert/ trim	PCTFE/ polycarbonate	Yes / No / Explain		
35	15.6. Pipe stub	ASTM A 312 TP Grade same as that of the body	Yes / No / Explain		
36	15.7. Bolts	ASTM A 320 Gr.B8	Yes / No / Explain		
37	15.8. Nuts	ASTM A 194 Gr.8	Yes / No / Explain		
38	16. The valves shall be either inherently anti-static or provided with anti-static features		-		
39	17. Design code	BS 5352/ BS 1873/API 6-D/ BS 6364/ ASME B16.34	Yes / No / Explain		
40	18. Test code	BS 6755 Part 1/ API 598/ ANSI B 16.34/ BS 6364	Yes / No / Explain		
41	19. Tests:		-		
42	19.1. Material certificates:	The material certificates, detailing the physical and chemical properties, of the principal pressure-bearing parts shall be provided.	Yes / No / Explain		
43	19.2. Dimensional inspection:	All valves have to be subjected to dimensional inspection as per the approved drawings.	Yes / No / Explain		

44	19.3. Bellows cyclic life test:	3 sample bellows drawn from each batch of the same size and type shall be subject to (destructive) cyclic life (proto-type) test as per BS 5352 or equivalent.	Yes / No / Explain		
45	19.4. Welding joint test (wherever applicable):	All butt-welding joints in the valve (including the joints between the body and the pipe stubs) shall be subject to radio-graphic test with X-rays or gamma rays to 2-2T sensitivity as per section IX, ASME. All the socket welding joints shall be subject to dye-penetrant test.	Yes / No / Explain		
46	19.5. Ultrasonic test:	100% ultrasonic test shall be conducted for the pipe stubs.	Yes / No / Explain		
47	19.6. Soundness test for castings (for nominal size \geq DN50):	All the castings shall be subject to soundness test with radiographic or ultrasonic technique for flaw detection.	Yes / No / Explain		
48	19.7. Pre-assembly hydraulic shell pressure test:	The valve shell, prior to assembly in partially open position, shall be subject to pressure test with water (with suitable corrosion inhibitor) at 1.5 times the nominal maximum rated working pressure of the particular pressure rating class of the valve.	Yes / No / Explain		
49	19. 8. Final hydraulic shell pressure test:	The valve, upon final assembly in partially open position, shall be subjected to pressure test with water (with suitable corrosion inhibitor) at 1.1 times the maximum rated working pressure of the particular pressure rating class.	Yes / No / Explain		

50	19.9. Hydraulic seat pressure test:	The valve, in closed position, shall be subject to pressure test with water (with suitable corrosion inhibitor) at 1.1 times the maximum rated working pressure of the particular pressure rating class of the valve.	Yes / No / Explain		
51	19.10. MSLD shell leakage test:	The global leakage rate across body shall be measured with gaseous Helium Mass Spectrometer Leakage Detector (MSLD) to establish the permissible leakage rate values specified above by hood technique as per Article 10, Section V, ASME. The leakage test shall be performed by shrouding the entire outside surface of the valve with a plastic bag to hold gaseous Helium at a positive pressure and by evacuating and connecting the inlet/outlet port to MSLD. Leakage test by detector probe or tracer probe technique is not acceptable.	Yes / No / Explain		
52	19.11. MSLD seat leakage test:	The global leakage rate across seat shall be measured with gaseous helium MSLD to establish the permissible leakage rate values specified above by hood technique as per Article 10, Section V, ASME. The leakage test shall be performed by pressurizing the inlet with gaseous Helium and by evacuating and connecting the outlet to MSLD. Leakage test by detector probe or tracer probe technique is not acceptable.	Yes / No / Explain		

53	19.12. Leak test for reverse flow shut off:	Each valve has to be subjected to reverse flow shut off test by pressurizing the downstream side to the pressure at 0.7 Mpa (g) and bubble tightness is to be ensured.	Yes / No / Explain		
54	19.13. Functional test:	Each valve has to be subjected to functional test for verification of free operation of valves to the full stroke length.	Yes / No / Explain		
55	20. Cleanliness:	All the interior flow surfaces of the valve shall be degreased and cleaned to Oxygen service standards as per CGA G-4.1 or ASTM G 93. The valves shall be dispatched with end connection sealed by suitable plastic plugs to avoid contamination during transportation.	Yes / No / Explain		
56	21. Marking:	All the valves are assigned serial numbers for the sake of identification. The size, pressure rating class, material of construction, etc., shall be legibly and indelibly engraved on the body of the valves and its response time.	Yes / No / Explain		
57	22. Actuator		-		
58	22.1. Type	Linear actuator, piston/diaphragm type, single acting, spring return, fail-safe	Yes / No / Explain		
59	22.2. Normal position	As given in Table – A1	Yes / No / Explain		
60	22.3. Command gas	Gaseous Nitrogen at 0.6 to 0.8 MPa(g) (Shall be specified by the bidder in case of deviation)	Yes / No / Explain		
61	22.4. Failure position	Close – Normally close valves Open – Normally open valves	Yes / No / Explain		

62	22.5. Response time (for both opening and closing strokes)	As given in Table-A1 If required, flow (volume) booster and quick exhaust valve shall be incorporated to achieve the specified response time.	Yes / No / Explain		
63	22.6. End connection for command gas	DN 8 (1/4") NPT (F) to ASME B 1.10.1. for DN ≤ 2" valves DN 15 (1/2") NPT (F) to ASME B 1.10.1. for DN ≥ 3" valves	Yes / No / Explain		
64	22.7. Material	Carbon steel (enamel-painted)	Yes / No / Explain		
65	22.8. Test (along with valve assembly)	The response time taken for opening and closing of the valve shall be evaluated.	Yes / No / Explain		
66	23. Status switches	The valve shall be provided with a pair of non-contact type proximity status switches to indicate the "opened/ closed" status of the valve. The status switches shall be mounted on the valve with such proper arrangement that does not require any adjustment/ alignment for the specified cycles of operation of the valve.	Yes / No / Explain		
67	23.1. Type	Cylindrical Inductive Type proximity Sensor (switch) in accordance with NAMUR	Yes / No / Explain		
68	23.2. Sensing Distance	1.5, 2, 4, 5 mm (The sensing distance shall be suitably selected by the valve manufacturer according to the valve stroke length)	Yes / No / Explain		
69	23.3. Electrical configuration	DC, 2 wire	Yes / No / Explain		
70	23.4. Nominal voltage	8 V	Yes / No / Explain		
71	23.5. Operating voltage	5 – 24V	Yes / No / Explain		
72	23.6. Switching frequency	≥ 500 Hz	Yes / No / Explain		

73	23.7. Reverse polarity	Shall be protected against reverse polarity	Yes / No / Explain		
74	23.8. Short circuit protection	Shall be protected for short circuit	Yes / No / Explain		
75	23.9. Current not consumption sensing Sensing	$\geq 3\text{mA}$ $\leq 1\text{mA}$	Yes / No / Explain		
76	23.10. Indication of switching state	LED	Yes / No / Explain		
77	23.11. Connection Type	2 m long PVC cable	Yes / No / Explain		
78	23.12. Ambient Temperature	-24° C to 80° C	Yes / No / Explain		
79	23.13. Housing material	Stainless steel	Yes / No / Explain		
80	23.14. Protection Degree	IP 67	Yes / No / Explain		
81	23.15. Hazardous area certification	The switches shall be intrinsically safe for Hydrogen environment in conformance with Ex ia IIC T6, Zone 1 of IEC/ ATEX. The certificate of conformance to this effect from the accredited agency shall be provided.	Yes / No / Explain		
82	23.16. Suggested make	a. IFM electronic b. Omron, USA c. Pepperl + Fuchs, Germany d. Rockwell Automation - USA e. LongVale Ltd – UK f. Carlo Gavazzi g. Euroswitch – UK	Yes / No / Explain		
83	24. Command solenoid valve	Solenoid valve for the command purpose is not under the scope of the supplier. Hence the solenoid valve need not be supplied along with the Pneumatic valve. It will be provided by IPRC.	Yes / No / Explain		
84	25. Quality assurance plan (QAP)	As given in Table – A2	Yes / No / Explain		

85	TERMS AND CONDITIONS:		-		
86	1.Pre-Qualification criteria (PQC)	<p>The Bidder's capability shall be evaluated based on the following Pre-Qualification (PQ) criteria. The Bidders shall suitably fill-up the information solicited in "Item specification" and submit as part of the Techno-Commercial Bid (TCB). Those Bidders who comply with the PQ criteria only will be screened-in for opening and evaluation of Price Bid. The information to be submitted in the TCB shall be complete in all respects substantiated by attached documents and there shall not be any further opportunity for the Bidders to submit any information or document unless the Purchaser solicits so at their own discretion. Any lack of information or incomplete/ambiguous information or false information or information non-compliant with the PQ criteria shall be treated as sufficient cause to summarily reject such Bids.</p>	Yes / No / Explain		

87	1.1.The Bidder or their principal must have successfully completed supply of of Electro Pneumatically operated bellow sealed globe valve for GH2 services during last 10 years. The claim shall be substantiated by Purchase Order(s) AND inspection release note(s)/ acceptance certificate(s)/receipt voucher by client/ TPI.		-		
----	---	--	---	--	--

88	2. Inspection: The Pre-Delivery Inspection (PDI) of the products shall be carried out by the Third Party Inspection (TPI) agency. The scope of inspection shall be as per the Quality Assurance Plan (QAP). The TPI agency shall be chosen from the following list only: a. Lloyds Register Industrial Services Pvt Ltd (LRIS), b. Det Norske Veritas (DNV), c. Technischer Überwachungs Verein (TUV), d. Bureau Veritas Industrial Services Pvt Ltd (BVIS).		-		
89	3.TPI:	It shall be responsibility of the vendor (bidder) to arrange and coordinate with the TPI agency.	Yes / No / Explain		
90	4.Design:	The design and testing shall be done in accordance with codes specified in the technical specification.	Yes / No / Explain		
91	5.Spares:	Spare kit for each valve shall be supplied along with the valves and list of spare parts shall be specified while drawing approval of valves.	Yes / No / Explain		

92	6.Scope of Inspection:	<p>The test requirements given in Annexure-A of the specification shall be conducted in the presence of Third-Party Inspection (TPI) agency.</p> <ul style="list-style-type: none"> •Review of material test certificate for physical (mechanical) and chemical properties for the principal pressure bearing components of the valve and Ultrasonic test reports of pipe stubs. •Review of bellows cycling life test certificates. •Review of Certificate of conformity of electrical and electronic components for explosion proof as per specification. •Witness of soundness test, pre assembly shell pressure test, Final hydraulic shell pressure test, MSLD shell & seat leakage test, MSLD jacket leakage test, pneumatic seat pressure test, reverse flow shut off test and functional test. •Review of DP test and radiography test reports. •Witness of cleanliness condition. •Visual and dimensional check report. 	Yes / No / Explain		
93	7.Delivery period:	<p>The maximum delivery period shall be specified by the bidder in the quotation and it should not be more than 6 months from the date of purchase order release.</p>	Yes / No / Explain		

94	8.Delivery Term:	The valves shall be securely packed inside wooden box and delivered on FOR-IPRC, Mahendragiri. (Packing & Forwarding & Insurance are vendor's scope). The unloading and erection at Purchaser's site shall be under the Purchaser's scope of responsibility. Any damages in the item during transit will be sole responsibility of vendors and it will return back to vendor for replacement with new items.	Yes / No / Explain		
95	9.Guarantee:	The valves shall be guaranteed for satisfactory performance over a period of 18 months from the date of dispatch from the Supplier's works or 12 months from the date of commissioning at the Purchaser's site, whichever happens to be earlier.	Yes / No / Explain		
96	10.Documentation:		-		

97	10.1.After placement of order:	<p>The following documents shall be provided within 2 weeks of PO released.</p> <ul style="list-style-type: none"> •An assembly drawing of the valves indicating overall dimensions & Cv. •Cross sectional drawing of the valves indicating dimensional details and material of construction of each part. <p>The above documents (drawings) are subjected to correction by the purchaser with reference to ordered specification and only after getting approval of the same by the Purchaser, the supplier shall go ahead with the fabrication. The purchaser shall provide feedback within a week from the date of obtaining drawing for approval.</p>	Yes / No / Explain		
----	--------------------------------	---	--------------------	--	--

98	10.2.Soon after completion of inspection:	<p>The following documents (2 copies) shall be sent to IPRC soon after the valves are fabricated, tested and inspected.</p> <ul style="list-style-type: none"> •Certificates of tests given in the specification, duly approved (stamped & signed) by the Supplier & TPI. •Certificated of cleanliness as per specification, duly approved (stamped & signed) by the Supplier & TPI. •Valve functional and performance test certificate duly approved stamped & signed) by the Supplier & TPI. •Final Inspection and release note given by the Supplier & TPI. •Guarantee certificate. •Instruction manual for operation, trouble shooting and maintenance of Valves. <p>On receiving and scrutinizing these documents, IPRC shall issue a “DESPATCH CLEARANCE” NOTE. Only upon receipt of dispatch clearance, the supplier shall go-ahead with dispatch of consignment.</p>	Yes / No / Explain		
99	10.3.Along with the items, the following documents shall be provided in English. <ul style="list-style-type: none"> •Test certificates / quality book -1 copy •Final as built drawings-1 copy •Operation & Maintenance manuals - 1 copy. 		-		

100	10.4.Marking:	The size of the valve, pressure rating class, MAOP and material of construction etc. shall be legibly and indelibly engraved on the body of the valves.	Yes / No / Explain		
101	11.Part order acceptance criteria:	Bidder should accept for part order supply by specifying minimum quantity.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Annexure II

2. Annexure 1

3. Annexure

4. Annexure I

5. Annexure II

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Taxes and other costs, if any: (Specify)	Yes / No / Explain	
2	Validity of Offer (specify)	Yes / No / Explain	
3	Delivery Period (specify)	Yes / No / Explain	
4	Delivery Terms: Normal delivery terms - FOR Destination (i.e., IPRC, Mahendragiri)	Yes / No / Explain	
5	PAYMENT TERMS - Our normal payment terms is 100% within 30 days of receipt and acceptance of the items (No advance payment allowed). Specify your payment terms.	Yes / No / Explain	
6	<p>Security Deposit: Supplier shall submit an interest free Security Deposit for an amount equivalent to 3% of the order value, obtained through Bank Guarantee or fixed deposit receipt from any of the Nationalized/Scheduled Banks executed on non-judicial stamp paper of Rs.200/- value, and shall be kept valid for a period of sixty days beyond the date for completion of the Purchase Order. The Security Deposit can be submitted within 15 days from date of PO.</p> <p>1.In case of BG, confirmation for issued BG may be sent by issuing Bank/Branch to : IFSC Code: SBIN0000880; SBI, Nagercoil Branch.</p> <p>2.In case of FDR, the lien should be marked to Sr. Accounts Officer, IPRC, Mahendragiri.</p> <p>3.In case of DD, it should be drawn in the favour of Sr. Accounts Officer, IPRC, Mahendragiri, payable at Mahendragiri.</p>	Yes / No / Explain	
7	Confirm: Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA	Yes / No / Explain	
8	Name of PRINCIPAL, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	

9	Name of INDIAN AGENT, Address, Contact No, E-mail Id etc. (specify):	Yes / No / Explain	
10	Currency quoted (specify)	Yes / No / Explain	
11	Warranty / Guarantee Period: (specify)	Yes / No / Explain	
12	Taxes and other costs, if any: (specify).	Yes / No / Explain	
13	Liquidated Damages - Delivery is the essence of the order. If delivery is delayed beyond the stipulated delivery period, LD at 0.5% per week shall be recovered subject to a maximum of 10% of order value of undelivered items	Yes / No / Explain	
14	<p>Performance Bank Guarantee (PBG): After the successful execution of the order, the vendor shall furnish a Performance Bank Guarantee for 3% of the value of order towards due performance of the equipment during the warranty/guarantee period. This PBG shall be submitted in the form of Bank Guarantee (in non-judicial stamp paper of appropriate value) OR Demand Draft OR Fixed Deposit Receipt (FDR) from any Nationalized/Scheduled Banks. The PBG shall be valid beyond two months from the expiry of warranty/guarantee period. This shall be returned upon its expiry. PBG will not carry any interest. If you failed to execute the Warranty/Guarantee obligations as per P.O terms, the submitted PBG will be forfeited.</p> <p>In case of BG, confirmation for issued BG may be sent by issuing Bank/Branch to : IFSC Code: SBIN0000880; SBI, Nagercoil Branch.</p> <p>2.In case of FDR, the lien should be marked to Sr. Accounts Officer, IPRC, Mahendragiri.</p> <p>3.In case of DD, it should be drawn in the favour of Sr. Accounts Officer, IPRC, Mahendragiri, payable at Mahendragiri.</p>	Yes / No / Explain	
15	Percentage of Local Content with documentary proof: (specify)	Yes / No / Explain	

16	If MSME, provide documentary proof: (specify)	Yes / No / Explain	
----	---	--------------------	--

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	GLOBE VALVE - 15NB, 900#, Bellow Sealed EP globe Valve	10.00 Nos.		-		
2	GLOBE VALVE - 25NB, 900#, Bellow Sealed EP globe Valve	3.00 Nos.		-		
3	GLOBE VALVE - 50NB, 2500 #, Bellow Sealed EP globe Valve	1.00 Nos.		-		
4	GLOBE VALVE - 80NB, 900 #, Bellow Sealed EP globe Valve	2.00 Nos.		-		

Common charges (Applicable for all items)

P & F	
Freight	
TPI charges (%)	
Testing charges (%)	
Other charges if any (%)	
3. Other Charges in Price (If any)	
1. Other Charges in Price (If any)	