

GENERAL CONDITIONS FOR HIGH PRESSURE GN2 CYLINDER**1.0 Delivery Period:**

The high pressure GN2 cylinders with accessories shall be delivered at Purchaser's site within 12 months from the date of Purchase Order.

2.0 Inspection:

The in-process (stage) and Pre-delivery (final) inspection of the cylinders shall be carried out by any reputed TPI agency viz. TUV, DNV, Lloyds, etc. it shall be the responsibility of the Supplier to arrange for and coordinate with the TPI agency. The charges towards inspection by TPI shall be indicated in the price bid of the quotation.

3.0 Delivery Term:

The high pressure GN2 cylinders with accessories shall be delivered in totally integrated form as skid and ready-to-install. The cylinder along with skids shall be securely packed and **delivered on FOR- Mahendragiri**. The unloading, erection and commissioning at Purchaser's site shall be under the scope of Purchaser.

4.0 Guarantee/ Warranty:

The high pressure GN₂ cylinders shall be guaranteed for material, workmanship & satisfactory performance for a period of 18 months from the date of receipt at purchaser's site.

5.0 Security Deposit:

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 obtained from any Nationalized/Schedule Bank and it shall be valid for the entire duration of the contract. This security deposit shall be returned to the supplier only upon successful completion of all the contractual obligations. Or shall be adjusted/forfeited against non fulfillment of any of the contractual obligations. The security deposit shall be submitted within 30 days from the date of Purchase order.

6.0 Liquidated Damages:

Due to reason not attributable to Purchaser, if the Supplier fails to supply the items satisfactorily at our site on or before the delivery period specified in the Purchase order or any extension thereof, the Purchaser will recover from the Supplier as Liquidated Damage (LD) a sum of 0.5% of the total order value for each calander

week of delay or part thereof subject to a maximum of 10% of the total order value.

7.0 Performance Bank Guarantee:

A performance bank guarantee (PBG) for 3% of the total order value shall be submitted prior to final payment of the order. It shall be valid for a period of sixty days beyond the date of completion of Guarantee period with sufficient claim period. The security deposit can be extended as PBG also.

8.0 Pre Qualification Criteria (PQC):

8.1 The Bidder's capability shall be evaluated based on the following Pre-Qualification Criteria (PQC). The Bidder shall strictly compliant to criteria solicited below in clause **8.4 & 8.5 of Annexure-2** and submit the supporting documents for the same as part of the Techno- Commercial Bid (TCB).

8.2 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 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.

8.3 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.

8.4 The Bidder must be a manufacturer and shall have ISO certification. The bidder shall provide detailed profile & ISO certificate.

8.5 The Bidder must have successfully completed supply of high pressure Gas cylinders of Maximum allowable working pressure (MAWP) 300 bar (a) or higher and capacity minimum 1750 litres, during the last 7 years ending 30-04-2025. The claim shall be substantiated by Purchase Order(s) and Third Party Inspection release note(s) (or) acceptance certificate by any Client between the period 01-05-2018 to 30-04-2025

9.0 Instruction to Bidders:

(The offer should contain two parts Part-I, Techno commercial bid & Part –II, Price bid.)

9.1 Deviations, if any, from the tender enquiry specification shall be explicitly spelt out. Otherwise it will be presumed that the offer is as per tender specification.

9.2 If any of the details required as per tender are not provided the offer will be summarily rejected.

9.3 The bidder strictly **should not indicate the price details in Techno Commercial bid (Part-I)**. The bid will be invalid if price details are indicated in any form.

9.4 The Bidder shall confirm that there is no mention or indication of any element of price whatsoever, as sum or percentage, in the Techno-commercial bid, (Part-I). Such information is to be given in the Price bid, (Part-II) only.

9.5 Purchaser will assess and infer the capability of the bidder to meet the specifications based on the available information. In this regard, discretion of Purchaser will be final.

10.0 Documentation:

The following documents, in English, shall be furnished at different stages specified thereupon.

10.1 **Along with Techno Commercial Bid (TCB) (Part-I):** The following documents shall be provided.

- 10.1.1
- a. The documentary evidences (supporting documents) for the source of the raw materials (Jumbo tubes) from the manufacturer like M/s Tenaris or M/s Vallourec Deutschland GmbH or the details as per clause-10.0 of specification (Annexure-1).
 - b. Certificates of "Existing approved design", duly endorsed by any TPI agency, in case of cylinders fall under the category of "existing design".
 - c. A complete technical description of the cylinder along accessories shall be furnished in the techno-commercial bid. The following details shall be specifically highlighted.
 1. Overall dimensions and mass of cylinder.
 2. Overall dimensions and mass of structural supports.
 3. Wall thickness of gas cylinders.
 4. Mechanical properties and chemical composition of the material of construction of cylinders.
- 10.1.2 A detailed profile of the bidder, in terms of their design and engineering expertise in manufacture & supply of similar gas cylinders, the machineries & infrastructure possessed, their quality management system, status of human resources etc. shall be furnished by the Supplier as per the Pre Qualification Criteria (PQC), clause 8.0 of Annexure-2
- 10.1.3 Deviations, if any, from the tender enquiry shall be explicitly spelt out. Otherwise it will be presumed that the offer meets all the tender specifications.
- 10.1.4 If any of the details required along with the offer as per tender is not provided, the offer will be summarily rejected

10.1.5 Technical compliance data sheet shall be provided with respect to specification along with Techno-Commercial Bid.

10.2 **Along with Price Bid (TCB) (Part-II):**

The quotation shall indicate the break-up prices as detailed below only in Price bid, (Part-II)

10.2.1 Price of cylinder

10.2.2 Price of Skid

10.2.3 Testing charges

10.2.4 Third party inspection charges (Will be paid at actual based on documentary evidence subjected to maximum quoted price).

10.2.5 Other charges viz. packing & forwarding, insurance, taxes etc., if any.

10.3 **After placement of purchase order:**

10.3.1 The following documents shall be prepared for design review & approval by Purchaser, TPI agency and Petroleum & Explosive Safety Organization (PESO) of Govt. of India for compliance with the requirements of relevant design codes as specified in the purchase order and statutory regulations.

10.3.2 It is the responsibility of the supplier to submit the documents, listed below, to Purchaser within **three weeks** of the receipt of order. The Purchaser within two weeks will scrutinize and provide clearance/comments on documents received from the Supplier. The comments, if any, offered by Purchaser have to be incorporated and the documents shall be sent to TPI agency for review and approval. The documents, listed below, Sl. No. 1 to 5, after the approval of TPI agency, have to be sent to PESO, Government of India for review and approval. Only after obtaining approval from PESO, the supplier shall proceed with fabrication activities. It is the responsibility of the supplier to submit the documents to the approving authorities (TPI agency and PESO) and the approvals from the agencies have to be obtained within **four weeks** from the date of receipt of clearance from Purchaser.

- a. The dimensioned General Arrangement (GA) drawing of gas cylinders along with skid.
- b. The detailed design calculations of cylinders.
- c. The detailed dimensioned cross-sectional drawing of cylinders.
- d. Purchaser's approved Quality Assurance Plan (QAP)
- e. Activity schedule chart (GANTT) detailing various activities of fabrication and the schedule of execution of these activities that comply with overall delivery period.

NOTE: Two copies of documents (in English), listed above, after obtaining necessary approvals from the respective approving agencies, shall be sent to purchaser for review and records.

10.4 **After completion of prototype tests by manufacturer :**

10.4.1 The cylinders under the category of “new design family” shall be subject to “Prototype tests” as per **clause 22.0 of Specification in Annexure - 1.**

10.4.2 “Type approval certificate”, after completion of prototype tests, duly endorsed by TPI agency, shall be submitted to Purchaser. On scrutiny, Purchaser shall issue “fabrication clearance certificate” and after which the fabrication activities shall be initiated

10.4.3 **For obtaining manufacturing clearance:**

After completion of activities listed under serial numbers 1 to 9 of QAP in Page 8 of Specification (Annexure1), test certificates, photographic records of visual inspection, activity reports and other relevant documents shall be provided to the Purchaser for review and obtaining approval to proceed with further manufacturing operations.

10.5 **After completion of full fabrication and before delivery: (Pre Delivery Inspection):**

After completion of fabrication and Pre-delivery inspection by TPI agency but before dispatch of cylinders, the following documents shall be sent to Purchaser. The same will be reviewed for compliance with purchase order & approved drawings. On acceptance, dispatch clearance will be issued by Purchaser and only after which the cylinders have to be dispatched.

The following documents duly endorsed by the TPI agency

10.5.1 Heat treatment activity report

10.5.2 Hardness inspection report

10.5.3 Report on mechanical properties on test sample extracted from the sample drum.

10.5.4 Duplicate test sample extracted from the sample drum for verification by the purchaser.

10.5.5 Magnetic particle inspection report

10.5.6 Liquid penetrant test report

10.5.7 Post heat treatment Ultrasonic Test (UT) report

10.5.8 Water capacity & mass test

10.5.9 Hydraulic / volumetric expansion test

10.5.10 Cylinder drying activity report

10.5.11 Internal and external shot blasting activity reports.

10.5.12 Surface inspection report

10.5.13 Photographic records of visual inspection of internal surfaces

10.5.14 Dimensional inspection report

10.5.15 Neck cap fitting assembly report

10.5.16 Painting Dry Film thickness (DFT) measurement report

10.5.17 Calibration records of the measurement sensors, equipments used for

manufacturing and inspection such as load cells for weighing water at hydrostatic stretch tests, thermocouples used in heat treatment, probes for ultrasonic testing etc,

10.5.18 All the test certificates, duly endorsed by TPI agency, as per scope of inspection referred in Inspection clause 23.0 of Specification / QAP (Annexure-1).

10.5.19 Pre-Delivery Inspection Release Note (PDI-RN) of the TPI agency.

10.5.20 Clearance/ certificate of approval from PESO for filling of the cylinders.

11.0 **SPARES:**

'O' rings / Seals of the end adapter (minimum 2 sets) to be supplied along with the consignment. The manufacturer's test certificates for spares shall be reviewed by Third Party Inspection agency and shall be submitted to the purchaser for review.

12.0 **Packing:**

12.1 All the openings of the cylinders shall be plugged with suitable closures to avoid contamination during transportation.

12.2 The cylinders shall be filled with dry (Dew Point $\leq -60^{\circ}\text{C}$) gaseous Nitrogen at a pressure of at least 2 bar (g) and the pressure decay due to leak, if any, shall be monitored for a period of at least 24 hrs. Based on that, the supplier should calculate the expected cylinder pressure at the time of reach at the purchaser's site shall be minimum of 1 bar (g) to avoid air entry during transit.