## **DEENDAYAL PORT AUTHORITY**

#### MECHANICAL ENGINEERING DEPARTMENT

# ONLINE QUOTATION (E-QUOTATION) NOTICE No. CME/1372/36

Superintending Engineer (E), Deendayal Port Authority, invites Online E-Quotation for "Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla Gujarat" at Estimated Cost Rs.6,65,775/-, EMD: Rs.6,657/- and Quotation Fee: Rs.590/- (including GST).

Last date of downloading: 27/05/2025 up to 1530 Hrs.

Last date and time of submission of Bid Documents only on website <a href="https://tender.nprocure.com">https://tender.nprocure.com</a> : 27/05/2025 up to 1600 Hrs.

Date and time of online opening of E-Quotation: 27/05/2025 at 1630 Hrs.

E-Quotation shall be published and downloaded from website: https://tender.nprocure.com, http://deendayalport.gov.in as well as http://eprocure.gov.in.

Corrigendum, if any, will be placed on website.

Bidders who wish to participate will have to procure/should have legally valid Digital Certificate as per Information Technology Act-2000, using which they can sign their electronics bids. The bidders can procure the digital certificate from (n) code solutions, a division of GNFC Ltd. who are licensed certifying authority by Government of India.

All bids should be Digitally Signed.

Sd/Superintending Engineer (E)
Deendayal Port Authority

## **NOTICE INVITING ONLINE E-QUOTATION (NIQ)**

Department Name	Mechanical Engineering Department				
Circle/ Division	Circle Division				
Notice No.	CMI	/1372/3	36		
Name of Work	"Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla Gujarat"				
Estimated Cost (INR)	Rs.	6,65,775	5/-		
Period of Completion			all be completed within 45 days from issue of work order.		
Bidding Type	Open				
Bid Call (Nos.)	One				
Tender Currency Type	Sing	le			
Tender Currency Settings	Indi	an Rupee	(INR)		
Joint Venture	Not	Applicable	9		
Rebate	Not	applicable	9		
Quotation/Bid Document Fee:	Rs.590.00 (Including 18% GST) In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification - 2008 mentioned below, only shall become eligible for exemption from payment of Quotation fee/EMD. Such bidder shall also upload the scanned copy of valid & relevant certificate on (n) procure website along with 'Bid Securing Declaration Form' (Form-I) in bid failing which the bid shall be considered non-responsive.				
	Class	Sub Class	Description		
	2812		Manufacture of fluid power equipment		
	2813	28132	manufacture of other pumps, compressors, taps and valves		
	33122 Repair and maintenance of pumps and related equipment, fluid power equipment, valves				
	2512	25121	Manufacture of metal containers for compressed or liquefied gas		
	2512	25122	Manufacture of metal reservoirs, tanks and similar containers		
		28195	Manufacture of filtering and purifying machinery or apparatus for liquids and gases		

		28199	Manufacture of other general purpose machinery n.e.c. (fans intended for industrial applications, exhaust hoods for commercial, laboratory or industrial use; calendering or other rolling machines other than for metals or glass; gaskets and similar joints made of a combination of materials or layers of the same material and other general purpose machinery including manufacture of parts and accessories for general purpose machinery and equipment.)
	2819		manufacture of other general-purpose
			machinery
		28299	Manufacture of other special-purpose
B: 1 6 ': (FMB (TMB)			machinery n.e.c.

#### Bid Security/EMD (INR):

**EMD** of **Rs.6,657/-** (Rupees Six Thousand Six Hundred Fifty-Seven Only) through online transfer in Bank of Baroda, Gandhidham Branch, **A/c no.: 10080100022427, IFSC Code: BARBOGANKUT**. Scan copy of RTGS no. and date of transfer may be uploaded on (n) procure website in Preliminary bid.

In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification - 2008 mentioned below, only shall become eligible for exemption from payment of Quotation fee/EMD. Such bidder shall also upload the scanned copy of valid & relevant certificate on (n) procure website along with 'Bid Securing Declaration Form' (Form-I) in bid failing which the bid shall be considered non-responsive.

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		28299	machinery  Manufacture of other special-purpose		
	machinery n.e.c.				
Bid Security/ EMD (INR) In Favour Of:	Deendayal Port Authority, Gandhidham				
Bid Document Downloading Start Date	20/05/2025 onwards				
Bid Document Downloading End Date	27/05	27/05/2025 up to 15:30 Hrs.			
Last Date & Time for Receipt of Bids	27/05/2025 up to 16:00 Hrs.				
Bid Validity Period	120 D	ays			
Condition	Quotation Fee of Rs.590/- (including GST) & EMD of Rs. 6,657/- (Rupees Six Thousand Six Hundred Fifty-Seven only) through digital mode of payment in: Bank of Baroda, Gandhidham Branch, Account no.: 10080100022427, IFSC Code: BARBOGANKUT.  Scan copy of the receipt/acknowledgement slip of online transfer including reference no. and date of transfer shall be uploaded on (n) procure website while uploading the bid.				
	This submission shall mean that Quotation Fee and EMD are received. Accordingly, offer of those bidders will only be opened whose Quotation Fee and EMD is received Electronically.				
	In case of Micro and Small Enterprise (MSEs) holding valid certificate issued by any agencies/organization under The Ministry of Micro, Small and Medium				

Enterprises indicating the list of activity related to the subject tender as per National Industrial Classification - 2008 mentioned below, only shall become eligible for exemption from payment of Quotation fee/EMD. Such bidder shall also upload the scanned copy of valid & relevant certificate on (n) procure website along with 'Bid Securing Declaration Form' (Form-I) in bid failing which the bid shall be considered non-responsive.

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However, for the purpose of realization, bidder shall send the same in original documents to Superintending Engineer (E) at the time of quotation opening or send the same by hand / courier / RPAD / Speed post so as to reach the Superintending Engineer (E), Mechanical Engineering Department, Deendayal Port Authority, Room No.312, Annex-Administrative Office Building,

	Gandhidham - 370201, Kachchh, Gujarat within 05 days from the last date of opening.			
Remarks	Submission of Quotation Fee and EMD and other documents during office hours within 05 days from the date of opening by hand / courier / RPAD / Speed post so as to reach the Superintending Engineer (E), Mechanical Engineering Department, Deendayal Port Authority, Room No.312, Annex-Administrative Office Building, Gandhidham - 370201, Kachchh, Gujarat.			
Bid Opening Date	Bid shall be opened on 27/05/2025 a	at 1630 Hrs.		
Qualification Criteria	Min. Quantity supplied in last 7 years ending last day of month previous to one in which application is invited.			
	Sr. Description No.	Min Quantity supplied		
	1 The Bidder should have designed, fabricated, tested, and supplied Pressure reducing/regulating skid 1 Set station with or without cylinder cascade in single purchase/work/supply order.			
	Note: The bidder shall submit the documents in support of qualifies  (i) A copy of detailed work/purchases  (ii) A copy of performance certificates successfully completed similar / support of qualification criterials should be issued on the letter her invariably mention the rework/supply/purchase order.	cation criteria: se/supply order. se in respect of the submitted work in a. Such certificate ad of the client and ference no. of		
Documents required to be submitted by scanning through online	<ul> <li>a. Quotation Fee &amp; EMD in form of digital mode of payment.</li> <li>b. A copy of detailed work/purchase/supply order.</li> <li>c. A copy of performance certificate in respect of the successfully completed similar / submitted work in support of qualification criteria. Such certificate should be issued on the letter head of the client and invariably mention the reference no. of work/supply/purchase order.</li> <li>d. GST Registration no. &amp; PAN.</li> </ul>			

	e. Bid documents duly signed & sealed by the bidder.  For the purpose of realization, the bidder shall send all the above documents in original / copies duly sealed & signed by the bidder to Superintending Engineer (E) within 05 days from the date of opening of bid through post or by hand. However, firm shall send the blank copy of Schedule "B" duly signed along with other documents.
	Evaluation of bids will be made on the basis of
	online submissions.
Officer Inviting Bids:	
Officer Inviting Bids: Bid Opening Authority:	Superintending Engineer (E)
Officer Inviting Bids: Bid Opening Authority: Address:	Superintending Engineer (E) Superintending Engineer (E) Superintending Engineer (E), Mechanical Engineering Department, Deendayal Port Authority, Room No.312, Annex-Administrative Office Building, Gandhidham - 370201,
Bid Opening Authority:	Superintending Engineer (E) Superintending Engineer (E) Superintending Engineer (E), Mechanical Engineering Department, Deendayal Port Authority, Room No.312, Annex-Administrative Office Building,

## NOTE:

In case, bidders need any clarifications or if training is required to participate in online Tenders, they can contact (n) Procure Support team at following address:

- (n) Code Solutions-A division of GNFC Ltd.,
- (n) Procure Cell 403, GNFC Info tower, S.G. Road, Bodakdev, Ahmedabad 380054 (Gujarat)

#### **Contact Details:**

**Airtel**: +91-79-40007501, 40007512, 40007516, 40007517, 40007525

**BSNL**: +91-79-26854511, 26854512, 26854513 (EXT: 501, 512, 516, 517, 525)

**Reliance:** +91-79-30181689 Fax: +91-79-26857321, 40007533

**E-mail:**nprocure@gnvfc.net

**TOLL FREE NUMBER:** 1-800-233-1010 (EXT: 501, 512, 516, 517, 525)

Sd/Superintending Engineer (E)
Deendayal Port Authority

E-Quotation for "Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla Gujarat"

#### **SECTION-I**

## **SCOPE OF WORK AND TERMS & CONDITIONS**

(1) The Deendayal Port Authority (DPA) intends to carry out "Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla, Gujarat." The whole system shall be supplied and installed inside oil jetty no.07, Kandla.

The agency is encouraged to inspect the site to understand the actual requirement and better clarification of work (at his own cost).

The completion period for said work shall be within 45 days from the date of issue of Work Order. Successful agency has to immediately complete the procedures for issuing the gate pass from CISF on his own cost.

(2) All the Necessary statutory permit/approval along with fee, as per applicability for Nitrogen (N2) Cylinders and Pressure Reducing Skid System (PRS) shall be obtained by the agency and the same shall be submitted in original to the DPA. The supplied cylinders and PRS must follow the applicable rules & regulation and certificate of the same shall be furnished by the agency.

Nitrogen Cylinders, manifold, valves, accessories must be pressure tested as per applicable norms. Agency has to submit copy of pressure testing certificate for the same.

#### (3) **Scope & Design Requirements:**

The scope of work covers Supply, Installation, Testing and Commissioning of Nitrogen Cylinders and Pressure Reducing Skid System and shall include design, engineering, manufacturing, shop painting, testing at manufacturer's works, proper marking & packaging (for transportation to site), loading of equipment and supervision of commissioning of Nitrogen cylinder along with pressure reducing skid.

Following are the system specific requirements. However, agency is free to offer anything over and above the minimum stated requirement based on design requirements.

The purity of Nitrogen gas shall be as below, Humidity: < 1 ppm

Particles: < 0.1 mg/m3 Size: < 1 µm

The Block Flow Diagram (**See reference diagrams**) illustrates the flow of nitrogen gas from a high-pressure cylinder, regulated by a pressure reducing skid, to the downstream process.

The Nitrogen Pressure Reducing System is to supply N2 at controlled pressure to 1 MW Green Hydrogen Plant to preserve it in shutdown condition.

## (4) Intent of Specification:

This specification is intended to cover the minimum requirement for complete system design, engineering, manufacturing, material, shop inspection, testing at manufacturer's works, painting, packing for transportation, Supervision of Testing and Commissioning at site, site painting (if any), performance guarantee test of Nitrogen cylinder along with pressure reducing skid, with all equipment and accessories.

## (5) **Technical Specification:**

### (i) Cylinders:

The Cylinders shall be EKC, RAMA Make, Indigenous, Empty, Brand New, High Pressure, Seamless Steel Gas Cylinders, Manufactured in Accordance with IS:7285 (Part 2):2004, as Specified Under Gas Cylinder Rules, 2004 With Manufacturer's Test Certificate and Approval from The Chief Controller of Explosives, Government of India, Nagpur.

Gas: Nitrogen with following parameters:

Humidity: < 1 ppm, Particles: < 0.1 mg/m3, Size: < 1  $\mu$ m

Working Pressure: 200 Bar Test Pressure: 340 Bar Water Capacity: 50 Ltrs. Gas Capacity: 10 M3 Outside Dia.: 232 mm Wall Thickness: 6.5 mm Tare Weight Approx.: 55 Kgs.

The manufacturer's test certificate shall be furnished by agency at the time of supply of cylinders.

## (ii) Cylinder Manifold System:

Manifold shall be fitted with cylinder isolating valves to facilitate the connection/disconnection of cylinders without interrupting the supply of gas.

Manifold shall connect to N2 cylinders by using hose pipe. Hose pipe shall have a regulator connection and a connection to a manifold with a non-return valve.

Manifold shall be fitted with pressure gauge and isolation block valve.

Pigtail connections, Manifold line, Isolation valves, one pressure gauge and twopiece filling & discharge valve provided in each Bank.

The main header pipeline shall be of annealed copper having 19 mm O.D. & wall

thickness of 3.2 mm. Brass nut made out of extrusion block shall be having ½" internal thread.

Pigtails pipe shall be of annealed copper having 8 mm O.D. & wall thickness of 2 mm Brass nuts & nipples made out of extrusion block-rods shall be having the required threads.

Brass block including the threaded section to mount valve shall be of 38X38 and 58 mm in length.

Brazing rods used for brazing must be of hi purity & required strength.

The pressure gauge of 4" dia. G/F having an all SS & Borden tube also of SS shall be provided.

The inlet & outlet valve shall be as per IS 3224.

Painting of the manifold & the pigtail shall be done after the total assembly of the manifold.

The Pneumatic pressure test shall be done on full manifold system after the assembly of manifold.

## (iii) Cylinder Cascade:

Each Cylinder cascade consisting of 04 nos. of cylinders and its associated manifold valves, copper tubing, blocks for connection and valve, cascade isolation valves, pressure gauges.

Cascade shall be fabricated out of  $50 \times 50 \times 4$  mm MS square pipe, angle, channel, 3.6 mm chequered plate for bottom support of cylinders with proper supporting arrangements by GMAW/SMAW electric welding process and Nuts bolts arrangement.

Fork lift provision provided at bottom and also lifting hooks provided at top of the frame.

Provision of external pre-treatment after the final job by application of anticorrosive chemicals and two coats of Epoxy grey primer & one coat of synthetic oil paint of the necessary symbol of the nature of gas for which the bank is fabricated.

For holding the cylinders, structural support/stand in MS with chain & hook arrangement shall be provided.

Heavy duty SS Braided wire hoses with inner Teflon tube (Suitable Length) for connecting Cascade to PRS shall be provided by the agency.

## (iv) Pressure Reducing Skid/Station (PRS):

Pressure Reducing Skid System including Cylinders for Nitrogen application shall be designed to reduce the pressure from 200 kg/cm2(g) at which it is stored in cylinders to the required outlet pressure 8 kg/cm2(g) in two stages with flow rate of 110 Nm3/Hr. to meet the required flow and balance as loose supply in agency's scope of supply.

The PRS shall be consisted of isolations valves for connecting cascade cylinders supply through SS braided wire hoses with the provision of spare isolation valve.

First Stage and Second Stage Safety Relief Valves shall be provided after First Stage and Second Stage Pressure Control Valves respectively for safety of piping system against over pressurization.

Pressure gauges shall be provided after each pressure reduction and at the appropriate location in the system.

After pressure reduction, prior to outlet point, there shall be NRV and isolation valve.

The detailed specifications of the vital components of the PRS are tabulated below:

Sr. No.	Component Description	Specification
1	Isolation Block Valve	Size: 1", Body: SS304, Internal SS316, end connection I/L of IBV: Male female flange, O/L of IBV 1500# socket weld
2	First Stage Pressure Control Valve	Regulation - Downstream; size 1", Body: SS304, Trim: SS 316, First Stage Inlet Pressure: 200 Kg/cm2; Set Pressure: 30 Kg/cm2, Set Pressure Range: - 27 to 33 Kg/cm2 Flow: 250nm3/hr.; Cal Cv:0.08, SelCv:0.16; End Connection: ANSIB16.25 1500# Socket Weld; Leakage Class: VI
3	First Stage Safety Relief Valve	Regulation - Upstream; Type - Conventional, Spring Loaded, FlangeEnd;1"X300#inlet11/2"X150#outlet, Body - SS304, Trim: SS 316; Set Pressure: 34 kg/cm2, Set Pressure Range–31 to 37 kg/cm2, Over pressure:10%, Flow:275 nm3/hr.; End connection: Flanged as per ANSI B16.5 RF
4	Second Stage Pressure Control Valve	Regulation - Downstream; size 1", Body: SS304, Trim: SS 316, Second Stage Inlet Pressure: 30 Kg/cm2; Set Pressure:8 Kg/cm2, Set Pressure Range: - 5 to11Kg/cm2 Flow:250 nm3/hr.; Cal Cv: 0.57, Sel Cv: 1.56; End Connection: ANSI B16.25 300# Flanged end; Leakage Class: VI
5	Second Stage	Regulation - Upstream; Type - Conventional, Spring

		T
	Safety Relief	Loaded, Flange End; 1" X 150# inlet1 1/2" X 150#
	Valve	outlet, Body - SS 304, Trim: SS 316; Set Pressure: 11
		kg/cm2, Set Pressure Range–8 to15 kg/cm2,
		Overpressure:10%, Flow: 275 nm3/hr.; End
		connection: Flanged asperANSIB16.5 RF
6	Non-Return	Size1"X 300#, Body: SS304, Internals: SS 316, Line
	Valve	Pressure-8 kg/cm2
7	Isolation Ball	Size: 1" X 300#, Body: SS304, Ball & stem SS 316: Fire
	Valve	safe design, Lever operated
8	Pressure Gauges	Bourdon type, 4"Dial size; SS316 case, 1/2"NPT,
		Bottom connection with SS304 isolation valve
9	Piping & Fitting	MOC: SS304 with necessary flange, fitting, gasket and
		fasteners

The entire interconnecting pipe shall be of seamless type.

All valves and specialties shall have permanent stainless steel tag plate fixed on the body, indicating the service for which these will be used and the primary pressure and temperature rating & tag number as per Name plate procedure.

All piping and fittings will be tested hydrostatically/pneumatically at the workshop/facility of agency, to test pressures which are given in the respective codes mentioned herein and elsewhere. The testing shall be carried out in the presence of the DPA appointed TPI Agency.

Pipe supports, guides, anchors, including all structural steel sub-framing are in Supplier's scope of supply and Structural steel shall conform to ASTM/IS standard.

The DPA will provide two earthing points for the skid, while the rest of the interconnections inside the skid will be the responsibility of the agency.

Items though not specifically mentioned but are required to make the system complete and safe trouble-free operation should be considered as included in the scope of agency and must be mentioned in the offer unless otherwise specifically excluded in the offer.

## (6) **Applicable Codes and Standard:**

All equipment, systems and services covered under this specification shall comply with all currently applicable statutes, regulations and safety codes in the area where the equipment will be installed. The equipment and systems shall also conform to the latest applicable standards specified. All codes and standards referred to in the specification shall be understood to be the latest version on the date of offer made by the bidder unless otherwise indicated. Nothing in this specification shall be construed to relieve the bidder of this responsibility. Publications of the following nationally recognized organization are applicable to the design, manufacture, and testing of the equipment included in the specification to the extent specified therein. Design, manufacture and testing of the Nitrogen cylinder and components thereof

shall, unless specifically stated otherwise, conform to the following specific codes and standards as applicable, including its latest amendments subsequent to the date of publication as mentioned below.

- National Fire Protection Association (NFPA)
- International Standards Organisation (ISO)
- Bureau of Indian Standards
- Indian Explosives Act.
- Indian Factories Act
- All pipe to conform with ANSI/ASME/ASA pressure piping code and seamless type.
- Any other statutory codes / standards / regulations. Pressure Measurement:
- 1. Performance Test Code for pressure measurement ASME PTC 19.2 latest edition
- 2. Bourdon tube pressure and vacuum gauges IS 3624, IS 3602, ASME B 40.1

#### **Process Connection and Piping:**

- 3. Codes for power piping ASME B31.1
- 4. Seamless carbon steel pipe ASTM A-106.
- 5. Forged and Rolled Alloy steel pipe flanges, forged fittings, valves and parts ASTM A-182.
- 6. Material for socket welded fittings ASTM A-105.
- 7. Seamless ferrite alloy steel pipe ASTM A-335.
- 8. Pipe fittings of wrought carbon steel and alloy steel ASTM A-234.
- 9. Composition bronze or metal castings ASTM B-62.
- 10. Seamless copper tube, bright annealed ASTM B-168.
- 11. Seamless copper tube ASTM B-75.
- 12. Dimensions of fittings ANSI B-16.11.
- 13. Valves flanged and butt-welding ends ANSI B16.34.
- 14. Nomenclature for Instrument tube fittings ISA-RP-42.1 1982.

The codes and standards specified above are indicative but not exhaustive. Any other equivalent code, subject to purchaser's approval. In case of any contradiction between the above standards and data specification sheets, the stipulation in the data sheets prevails and shall be binding on the bidder. Standards not indicated in the specification are acceptable subject to the approval of purchaser/ owner, if they are established to be equal or superior to the standards indicated in the specification. Metric units / SI units shall be used in all data / drawings submitted for this package.

#### (7) Bidder's Documents Submission:

- (i) It is the responsibility of the bidder to get the required approval for all the drawings / documents submitted by the bidder to Employer.
- (ii) Approval of Drawings / documents does not absolve the bidder from the

- responsibilities for correctness of Design, Workmanship, Guarantee Performance, complete technical and contractual obligations / requirements.
- (iii) Any discrepancy / deviation / defect in the material or part thereof if noticed in future or the System / Equipment fails to comply with the requirements stated in various parts of technical specifications, the same shall have to be replaced / rectified by the bidder without any financial implication to the employer.
- (8) The rates shall remain valid for a period of 120 days from the date of opening of Bid.
- (9) **Method of Evaluation of Bids:** The bidders whose quoted amount stands lowest shall be awarded the work.
- (10) Rate offered by the agency and accepted by DPA will remain constant till successful completion of the work.
- (11) The rates quoted shall be inclusive of all labour, materials, loading, unloading, certifications, duties, taxes, levies, transportation, tools, tackles, jigs and fixers etc. Except GST and no extra payment will be made for whatsoever reasons by Deendayal Port Authority.
- (12) Superintending Engineer (E) reserves the right to cancel the quotation without assigning any reasons and also increase / decrease the quantum of work.
- (13) **Force Majeure:** This shall be restricted to act of God only.
- (14) The Agency will follow all the applicable labour laws.
- (15) All the rules and regulation governing Deendayal Port Authority (DPA) will be applicable.
- (16) The work shall be carried out in accordance with the best standard of workmanship.
- (17) Agency has to arrange all required tools & tackles, instruments and any other required consumables mobile equipment for lifting and shifting of materials, labour, manpower etc. to perform / supply the requisite work. No transportation, accommodation shall be provided by DPA.
- (18) The complete responsibility for safe working of their staffs will be borne by the Agency. DPA will not be responsible for any loss, damage or accident to any of the staff.
- (19) While performing under the contract, the damages caused by the Agency or his workers to any of the Port Authority property shall be promptly made good by the

Agency at his own cost. In case the Agency fails to repair / replace the damage, DEENDAYAL PORT AUTHORITY shall have the right to take steps to make good the damages and all the cost on this account shall be recovered from the bills of the Agency or any money due to the Agency from this contract or any other contract or any other transaction. In determination of the damage, the opinion of the Engineer-In-charge (EIC) shall be conclusive.

(20) **Liquidate Damages:** In case of delay in completing the scope of work, liquidated damages (LD) may be levied at the rate ½ % of the contract price per week of delay or part thereof subject to 10 % of the contract price.

At any point of time whenever the penalty amount exceeds 10 % of the contract price, the process for black listing the party will be initiated.

- (21) **Defect Liability Period:** The warranty/guarantee period shall be valid up to twelve (12) months with effect from the date of completion of the work after successful trial and testing. **The agency has to furnish undertaking in this regard on its letter head**.
- (22) Agency will be responsible for the poor workmanship or manufacturing defect during the guaranteed period. During the guarantee period, any part (s) is required to be changed due to poor workmanship of the agency or manufacturing defect, the cost of spare parts will be borne by party & re-work and other auxiliary work including trial is to be done by the Agency at free of cost. In this connection, decision of Engineer in Charge will be final and binding to the Agency.
- (23) **Performance Guarantee:** Performance Guarantee/Security deposit shall consist of two parts; a) Performance Guarantee to be submitted on Award of Work, and b) Retention money to be recovered from Bill.

Security deposit shall be 10% of the contract price, of which (a) 5% of contract price should be submitted through **Online Digital Transfer or FDR or DD or Insurance Surety Bond (Form 8 A) or in form of Bank Guarantee(Form-2)** issued from Nationalized/ Scheduled bank (except co-operative banks), having its branch at Gandhidham, within 07 days on Award of work and (b) balance 5% to be recovered as Retention Money from Bill.

Upon satisfactory completion of work and submission of final bill, retention money equal to 5% as mentioned above at (b) will be refunded within 14 days from the date of receipt of final bill.

Balance SD equal to 5% as mentioned above at (a) will be refunded immediately not later than 14 days from completion of defect liability period.

- i. Performance security shall be valid for 60 (sixty) days beyond the date of completion of all contractual obligations for ensuring due performance of the contract.
- ii. The Port Authority will also be at liberty to deduct from performance guarantee or from any sums of money due or that may become due under any contract with the contractor that may become due to the employer. This is without prejudice to the rights of the

- employer under the terms of the contract. In case of BG, the same is required to be dispatched by the issuing bank directly to The Employer by Registered AD Post.
- iii. Failure of the Successful Bidder to comply with the requirements as mentioned above shall constitute sufficient grounds for cancellation of the award of work and forfeiture of bid security i.e. EMD.
- iv. The Port Authority may at their option forfeit the Performance Guarantee cum Security Deposit if the contractor fails to carry out the work or perform or observe the conditions of contract.

### (24) Payment terms:

- (i) All payments shall be made in Indian Rupees through RTGS / NEFT after completion of the work, within 30 days for which party has to submit the invoice and bank details in triplicate. The bills must have GSTIN No. of the party (if registered under GST) as well as GST No. of DPA (GSTIN No. of DPA is 24AAALK0046N1Z6).
- (ii) 90 % of accepted quotation amount shall be released after complete supply and installation, testing & commissioning of the system as per scope along with relevant documents/certificates and certification of Third-Party Inspection Agency (TPIA) (appointed by DPA) and receipt of bills in triplicate through RTGS
- (iii) 10% of accepted quotation amount will be retained and it will be released after successful completion of guarantee / warranty period.

#### (25) **Taxes:**

#### **GST Clause:**

The bidder shall quote the price exclusive of GST. The bidder shall quote prevailing GST rate separately, which shall be reimbursed by DPT after ascertaining necessary compliance as per Goods & Service Tax, 2017. The Agency should have valid GST registration number to become eligible for participating in the bid. However, GST will not be considered for evaluation of Bid Price.

All other duties, taxes, cesses applicable if any, shall be borne by the Agency.

#### Deduction:

The TDS under GST Act is required to be deducted @ 2% (1% CGST & 1% SGST or 2% IGST) from Payment / credit given to Contractor / Professionals and Others to work order / Contracts exceeding Rs. 2,50,000.00

"Contractor / Service provider / supplier etc. has to ensure timely and proper filling of GSTR 1 so that Deendayal Port Authority can avail input tax credit in timely manner. In case DPA not allowed input tax credit due to failure on part of the contractor / service provider/ supplier etc., it will be a financial loss to the DPA and therefore same shall be recovered from the payment / deposit pf the contractor / service provider / supplier."

Any dues arising out of failure on the part of the Contractor to carry out any obligation under the contract shall be deducted from the bills of the Contractor or from any money due to the Contractor from this contract or any other contract.

(26) The EMD of unsuccessful bidders other than L1 & L2 be refunded immediately after ranking of Bids. Earnest Money of L2 bidder shall be refunded immediately after issuance of award of work to L1 and acceptance of Performance Guarantee from L1.

The EMD of successful bidder will be discharged (refunded) after he has furnished the required Performance Guarantee.

(27) The Schedule - B (Price bid) to be submitted on-line shall be signed digitally by a person or persons duly authorized to sign on behalf the Bidders. **The Schedule - B** (Price bid) should not be submitted in hard copy along with other required documents.

## (28) Submission of Bids:

The quotations shall be submitted on line through n-procure on or before the due date

Bidders who wish to participate in the bidding will have to procure / should have legally valid Digital Certificate, as per Information Technology Act-2000, using which they can sign their electronic bids. The bidders can procure the digital Certificate from (n) code solutions, a division of GNFC Ltd, who are licensed certifying authority by Government of India. All bids should be digitally signed. For details regarding Digital signature certificate and related matters, the bidder may contact the following address:

(n) code Solutions, A Division of GNFC, 301 GNFC Info tower, Bodakdev, Ahmedabad.

Tel. 91 79 26857316/17/18, Fax: 91 79 26857321

Mobile: 9327084190 / 9898589652, E-mail: nprocure@gnvfc.net.

The accompaniments to the Bid documents as described under NIQ shall be scanned and submitted On-Line along with bid. However, the originals / attested hard copies along with Bid documents (except Price Bid), signed on bottom of each page in token of acceptance of Tender Conditions and shall have to be forwarded subsequently so as to reach the office of Superintending Engineer (E) within 05 days of opening of the Bid.

The envelopes shall be addressed to:

(a) Superintending Engineer (E),

Mechanical Engineering Department,
Deendayal Port Authority,
Room No.312, Annex – Administrative Office Building,
Gandhidham – 370201
Kachchh, Gujarat.

(b) bear the following identification:

Accompaniments for "Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla Gujarat.

Bid reference No. CME/1372/36

Name and address of the bidder.

Seal and Signature of Agency

Sd/Superintending Engineer (E)
Deendayal Port Authority

#### **SECTION-II**

#### **SCHEDULE-B**

Name of work: "Procurement of Nitrogen Cylinders and Pressure Reducing Skid System for 1 MW Green Hydrogen Demonstration Plant Project at Kandla Gujarat.

Sr.	Description	Qty.	Unit	Rate	Amount
<b>No.</b> 1	Supply, Installation, Testing, Commissioning of 03 Sets of	3	Set		(Rs.)
1	Nitrogen Cylinder Cascade each consisting of 4 Nos.	3	361		
	Cylinders of 50 Liter W.C. including manifold valves, copper				
	tubing, manifold, blocks for connection and valves, cascade				
	isolation valves, pressure gauges with following				
	Specification:				
	Specifications:				
	Working Pressure: 200 Bar				
	Test Pressure: 340 Bar				
	Water Capacity: 50 Ltrs.				
	Manifold MoC: Brass & Copper				
	MoC of Pressure Gauges: SS				
	Gas Capacity: 10 M3				
	Outside Dia.: 232 mm				
	Wall Thickness: 6.5 mm				
	Tare Weight Approx.: 55 Kgs.				
	Note:				
	The Cylinders shall be EKC, RAMA Make, Indigenous, Empty,				
	Brand New High Pressure, Seamless Steel Gas Cylinders,				
	Manufactured in Accordance with IS:7285 (Part 2):2004 or				
	latest, as Specified Under Gas Cylinder Rules, 2004 With				
	Manufacturer's Test Certificate and Approval from The Chief				
	Controller of Explosives, Government of India, Nagpur.				
2	Supply, Installation, Testing, Commissioning of Nitrogen	1	Set		
	Pressure Reducing Skid system for 200 Kg/cm2 to 8 Kg/cm2				
	pressure reduction in Two Stages with outlet Flow of 110				
	Nm3/Hr. including the following components.				
	Specifications:				
	Service: Nitrogen				
	Pressure reduction stages:				
	First Stage: 200 Kg/cm2 to 30 Kg/cm2				
	Second Stage: 30 Kg/cm2 to 8 Kg/cm2				
	Outlet Flow Rate: 110 NM3/Hr.				
	MoC of All Valves: SS304 (Internal SS316, Bonnet: CS)				
	MoC of Pressure Gauges: SS				
	Components of PRS:				
	SS Braided wire hose with inner Teflon tube (As required)				

Isolation Block Valve (1 No.)				
First Stage Pressure Control Valve (1 No.)				
First Stage Safety Relief Valve (1 No.)				
Second Stage Pressure Control Valve (1 No.)				
Second Stage Safety Relief Valve (1 No.)				
Non-Return Valve (1 No.)				
Isolation Ball Valve (1 No.)				
Pressure Gauges (3 Nos.)				
Piping & Fitting (As required)				
Support (As required)				
Note: The Technical Specifications of PRS & its components				
shall be as described under Scope of Work and Terms &				
Condition.				
Total Amo	ount (Rs.)	(Excludin	ig GST):	

Rupees (Excluding GST) (In word):

\_\_\_\_\_

Note: Price to be Submitted online only.

Seal and Signature of Agency

Sd/-Superintending Engineer (E) Deendayal Port Authority

# FORM-1 (Applicable for MSE's)

# FORMAT OF BID SECURITY DECLARATION FROM BIDDERS (On Bidders Letter head)

## **BID SECURITY DECLARATION FORM**

Date:	NIQ No	
To (insert compl	plete name and address of the Employer/Purchaser)	
I/We,	, the undersigned, declare that:	
=	understand that, according to your conditions, bids must be song Declaration.	upported by
you for a peri	accept that I/We may be disqualified from bidding for any corriod of three year from the date of notification if I am /We are ation under the bid conditions, because I/We	
•	ave withdrawn/modified/amended, impairs or derogates from sy/our Bid during the period of bid validity specified in the form	•
the or	aving been notified of the acceptance of our Bid by the purch ne period of bid validity (i) fail or reuse to execute the contract, r (ii) fail or refuse to furnish the Performance Security, in acco ne Instructions to Bidders.	, if required,
are not the si	understand this Bid Securing Declaration shall cease to be valid successful Bidder, upon the earlier of (i) the receipt of your not the successful Bidder; or (ii) thirty days after the expiration of id.	otification of
	ert signature of person whose name and capacity are shown) city of (insert legal capacity of person signing the Bid Securing I	
•	ert complete name of person signing the Bid Securing Declaratized to sign the bid for an on behalf of (insert complete name	•
Dated on	day of (insert date of s	signing)
Corporate Se	eal (where appropriate)	

## SPECIMEN BANK GURANTEE TOWARDS PERFORMANCE GUARANTEE/SECURITY DEPOSIT

(To be executed on Rs. 300/- non-judicial Stamp Paper& to be submitted after entering by issuing Branch in their online system for generating Bank Guarantee in SFMS Mode)

To,

exceeding Rs.

The Board of Authority of Deendayal Port, Deendayal Port Authority, A.O. Building, P.O. Box No.50, Gandhidham -Kutch. In consideration of the Board of Deendayal Port Authority of the Port of DEENDAYAL PORT AUTHORITY incorporated by the Major Port Authorities Act, 2021 (hereinafter called "The Board" which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include the Board of Deendayal Port Authority of the Port of [DEENDAYAL PORT AUTHORITY], its successors and assigns) having agreed to exempt (hereinafter called the "contractor") (Name of the contractor/s) from the demand under the terms and condition of the contract, vide (Name of the Department)'s letter No. \_\_\_\_\_ Date \_\_\_\_ made between the contractors and the Board for execution of \_\_\_\_\_ covered under \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter called "the said contract") Tender No. for the payment of Security Deposit in cash or Lodgment of Government Promissory Loan Notes for the due fulfillment by the said contractors of the terms and condition of the said contract, on production of a bank Guarantee (Rupees \_\_\_\_\_\_ ) only we, the (Name of the Bank and Address ) hereinafter referred to as "the Bank") at the request of the contractors do hereby undertake to pay to the Board an amount not exceeding Rs.\_\_\_\_ (Rupees only against any loss or damage caused to or suffered by the Board by reason of any breach by the contractors of any of the terms and conditions of the said contract. 2. We,\_\_\_\_ (Name of Bank) (Name of Branch), do hereby Undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the Board starting that the amount claimed is due by way of loss or damage caused to or which would be caused to or suffered by the Board by reason of the contractor's failure to perform the said contract. Any such demand made on the Bank shall be

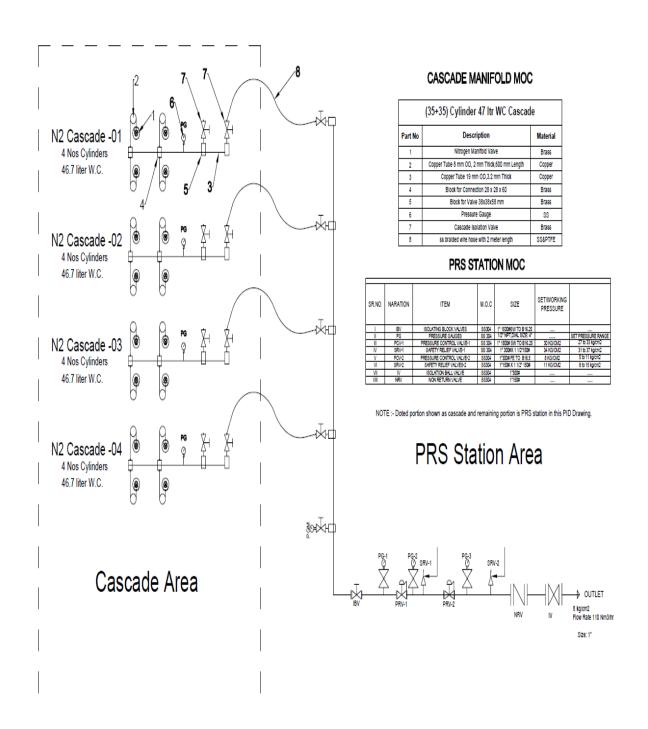
conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to any amount not

(	Rupees	) only.
	,u.p	, •, .

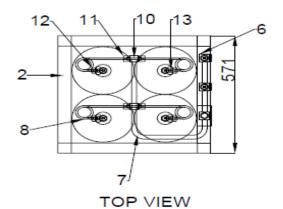
- 3. We,\_\_\_\_\_ (Name of Bank and Branch), undertake to pay to the Board any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
- 4. We, (Name of Bank and Branch), further agree with the Board that the guarantee herein contained shall remain in full force and effect during the period that would be taken for performance of the said contract and that it shall continue to be enforceable till all the dues of the Board under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the (Name of the user department) of the said certifies that the terms and conditions of the said contract have been fully and properly carried out by the said Contractors and accordingly discharge this guarantee. PROVIDED HOWEVER that the Bank shall at the request of the Board but at the cost of the Contractors, renew or extend this guarantee for such further period or periods as the Board may require from time to time.
- 5. We, (Name of Bank and Branch), further agree with the Board that the Board shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend the time of performance by the said Contractors from time to time or to postpone for any time or from time to time any of the powers exercisable by the board against the said Contractors and to forebear or enforce any of the terms and conditions relating to the said contract and we shall not be relieved from our liability by reason of any such variation or extensions being granted to the contractors or for any forbearance, act or omission on the part of the Board or any indulgence shown by the board to the Contractors or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
- 6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
- 7. It is also hereby agreed that the Courts in Gandhidham would have exclusive jurisdiction in respect of claims, if any, under this Guarantee.
- 8. We,\_\_\_\_Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Board in writing.

9.	Notwithstanding anything contained herein:
	(a) Our liability under this Bank Guarantee shall not exceed Rs. (Rupees
	only);

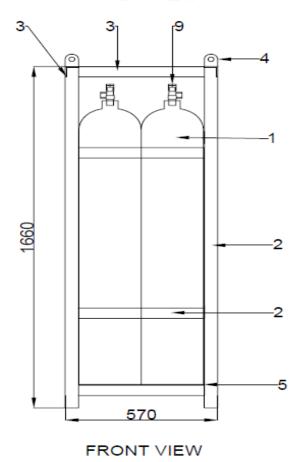
` '		he guarantee an	o; and nount or any part thereof under this ve upon us a written claim or demand		
<ul><li>(i) Name of Beneficiary's Bank is State Bank of India, Gandhidham.</li><li>(ii) IFSC No. of Beneficiary's Bank is SBIN0060239.</li><li>(iii) Bank Account No. of Beneficiary is 10316591671.</li></ul>					
	Date	day of	20		
			For, (Name of Bank) (Name) Signature		

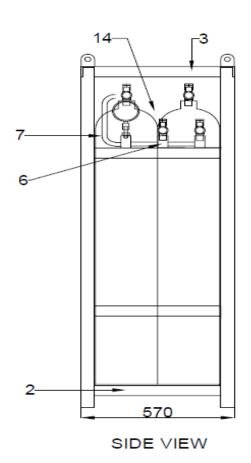


## Reference Diagram - 1



4	4 CYLINDER 46.7 LTR WC VERTICAL CASCADE				
SR	DESCRIPTION	MAT.			
1	46.7 LTR WC CYLINDER	MS			
2	50*50*4 MM BOX PIPE	MS			
3	40*40*5 MM ANGLE	MS			
4	LIFTING HOOCK	MS			
5	3.6 MM SHEQUERED PLATE	MS			
6	38 MM BLOCK	BRASS			
7	19 MM OD 3.2 MM THICK TUBE	COPPER			
8	8 MM OD 2 MM THICK TUBE	COPPER			
9	CYLINDER VALVE	BRASS			
10	28 MM DOUBLE CROSS	BRASS			
11	1/2 BSP FEMALE NUT	BRASS			
12	3/4 BSP FEMALE NUT	BRASS			
13	BULLNOSE NIPPLE	BRASS			
14	PRESSURE GAUGE	SS			





## Reference Diagram - 2