

Office of the X.E.N (M)
Port & Customs Building,
New Kandla (Kutch), Gujarat-
Email ID :- mech.div.kpt@gmail.com



No. CME/Mech.Division/783/AOB-96

Date: 24.11.2023

To,

'Expression of Interest'

Sub: "Annual Rate Contract for Operation and Maintenance of Medical PSA Oxygen generation plant and Medical oxygen piping system installed at DPA Hospital, Gopalpuri for the period of 5 years"-reg.

Sir,

Deendayal Port Authority, an autonomous body under Ministry of Ports, Shipping & Waterways, Govt. of India intends to engage a credible agency to provide the Operation and Maintenance services for installed 01 No. of PSA Medical Oxygen Generation Plant along with oxygen piping system through rate contract. EOI has been invited from the Manufacturers/ Authorized distributors/ Authorized Partners/ credible agency for providing Operation and Maintenance of PSA Medical Oxygen Generation Plant of 20 cum/hr. capacity through rate contract for the period of 05 years within Port Hospital premises, Gopalpuri, Gandhidham.

Kindly submit your Expression of interest alongwith budgetary-offer for the subject work on the basis of the scope of work enclosed herewith. Expression of Interest should include profile of your firm, work experience in similar works, summary of financial reports, technical brochure (if any), and your comments/suggestions (if any) regarding the proposal etc. on the above mentioned E-mail Ids.

The rates quoted must be inclusive of all costs such as tools, tackles, labour, transportation and other auxiliary charges for successful completion of the work excluding GST. The GST applicable shall be shown separately, which shall not be considered for evaluation purposes.

Your EOI with budgetary offers (Forms- A to D) for the above work should reach this office or on Email ID :- mech.div.kpt@gmail.com on and before 05.12.2023 at 1500 hrs. For addressing of genuine queries, Shri Manohar Dana (Mo. +91 8980001148) may be contacted.

Thanking you

Yours faithfully,

Sd/-
Executive Engineer (Mech.)
Deendayal Port Authority

General Terms & Conditions:

DPA intends to engage a credible agency to provide Operation and Maintenance services under the Medical Hospital situated at Gopalpuri, Gandhidham, Kutch area of Deendayal Port Authority.

SCOPE OF WORK:

1.0 Scope of Work:

- 1.01 The scope of work includes providing Operation and Maintenance services of Medical Oxygen System under the Medical Deptt. of Deendayal Port Authority., which covers **deputing skilled operators round the clock for carrying-out the services** like operation of PSA oxygen plant, operating & looking after Oxygen Pipeline system installed at various locations inside Gopalpuri Hospital and Oxygen Cylinder Manifold with Automatic Changeover Panel at hospital at DPA Gopalpuri. The Scope also covers Repair and maintenance, periodical preventive maintenance and attending any number of breakdown calls as and when required of the complete oxygen system as and when required.

- 1.02 The section describes certain broad & indicative requirement to which the contractor shall work, but this shall not absolve the contractor from his responsibility to carry out the work in proper manner and acceptable in all respects as per standard practice even if there is any omission in the prescribed scope/ specification.

Details of PSA oxygen plant and other accessories installed at Gopalpuri Hospital for carrying out Operation as well as Repair and maintenance works as and when required during the operation of Complete systems.

Description	Details of Parts/ Accessories
1) PSA Oxygen Plant Capacity 20 Cum/Hr. with all accessories	a) Feed Air Compressor (1 No.) b) Refrigerated Air Dryer (1 No.) c) Pre filters d) Oil Filters e) Twin Towers PSA unit for removable with surge vessel with all interconnecting piping and valves f) Surge Vessel (1 No.) g) Metal Tube Rotameter (1 No.) h) Online Oxygen Analyzer with Sensor (1 No.) i) 3 M ³ Oxygen Storage Tank (1 No.) j) Complete instrumentation packages k) Set of pneumatic change over valves l) PLC base Control panel
2) Medical oxygen piping with Medical instruments & fittings	a) Seamless type Copper piping of different sizes like 28, 22 & 15mm b) Oxygen outlet and Oxygen Masks c) Ward, area & bed-wise Valves d) Main Manifold for piping system e) Line Alarm system f) Pressure regulator valves

	g) Pressure gauge with suitable fittings
3) Oxygen Cylinder Manifold with Changeover Panel	a) Manifold for cylinder Bank b) Automatic Panel for cylinder Bank c) Pressure Control Regulator d) Pressure gauge with suitable fittings

Note: - The Contractor shall examine carefully the condition of contract, scope, site etc. He shall also visit and inspect site of work and acquaint himself with all local condition inside the port, working condition at and around the site. No dispute/claims what-so-ever shall be entertained for the work of any nature arising out of local conditions.

1.03 The scope of the work, not limited to includes the following as:

- a. The contractor has to **deploy suitable number of operators for round the clock operation of complete PSA oxygen plant**, Oxygen Pipeline system installed at various locations inside Hospital and Oxygen Cylinder Manifold with Automatic Changeover Panel at Port hospital, Gopalpuri.
- b. The contractor will have to provide **minimum three experienced operators (one operator in one shift, total three shift per day)** with proper work experience/qualification as decided by DPA in each shift, round the clock to operate and maintain the Medical PSA Oxygen Gas Plant and Medical Oxygen Gas Pipeline System. These operators shall be adequately trained by the contractor to handle minor repairs to ensure uninterrupted supply of Oxygen Gas. This is required to maintain smooth functioning of all equipment and system of Medical Gas Oxygen Manifold Plant and Medical Oxygen Gas Pipeline System.
- c. The operator shall be having **minimum qualification of Diploma/ ITI certification with two years' experience or more**. The contractor has to submit documentary evidence i.e. appointment letters/ salary slips/ bank statements/ notarized experience declaration based on relevant documents etc. with respect to the mentioned experience against the staff before deployment.
- d. Contractor is responsible for maintaining required oxygen pressure and required oxygen purity as per the direction of Medical officer of DPA round the clock, during operation and ensure the Oxygen supply installed at various ward/rooms.
- e. Required manpower to repair & maintain and operate the full oxygen system and an experienced Technician/Engineer as & when required, for attending any repair or maintenance work will be under scope of work of Contractor, it shall be taken in consideration. The Repair & Maintenance of the PSA Oxygen plant shall be in the scope of the contractor. Any fault/ breakdown shall be reported to the DPA department and has to be coordinated with PSA Oxygen plant OEM.
- f. **For Preventive and Breakdown Maintenance of PSA Oxygen Plant from OEM as under: -**
 - The Service Engineer of M/s. Chem Process Systems, Ahmedabad (i.e. OEM of PSA Oxygen Plant), shall be booked for 03 (Three) Time in the year for routine check and preventive maintenance of PSA Oxygen Pant by the contractor without any extra cost. Further, if required Service Engineer of M/s. Chem Process Systems, Ahmedabad shall also intimate to attend the breakdown calls on short notice by the contractor.

- All fooding, lodging & transportation cost of Service Engineer of M/s. Chem Process Systems, Ahmedabad (i.e. OEM of PSA Oxygen Plant) should be solely bear by the contractor. The contractor shall also arrange for transportation of staffs & materials if required from work site to repair site and vice-versa.
 - The cost of original spares form OEM required for maintenance of PSA Oxygen Plant and its auxiliary equipment's shall initially be borne by the successful tenderer which will be reimbursed by DPA, subject to verification of spare parts from OEM, test report, Tax Invoice from OEM etc. The decision of Medical officer / Engineer-In-Charge of DPA shall be final and biding on the agency.
- g. Operation of all the starter panel, valves, controllers etc. required for operation of various components and all electrical work required for functioning the PSA oxygen Generator plant and all other works appended in the mentioned clauses hereafter is in the scope of Contractor. Contractor has to ensure that supply of Medical oxygen at the installed wards and bed-points at the required pressure & flow. the complete operation of the system shall be responsibility of the contractor during the tenure of the contract.
 - h. The contractor will have to check all medical Oxygen gas cylinders kept near the Manifold bank or available at different areas of the Hospital for pressure and leakage. The contractor shall immediately report to Hospital Management for further courses of action.
 - i. The cost of electrical spares related to equipment and accessories including repairing of electrical motors etc. will be borne by the contractor.
 - j. In case the PSA oxygen generation plant is not working due to any reason, the service provider needs to make necessary steps to charge oxygen pipeline through Changeover Panel & Oxygen Cylinders Bank and also the work of shifting of Filled cylinders at the Oxygen Cylinders Bank space and shifting back empty cylinders at the Empty storage space earmarked by the Hospital officials shall be in scope of the contractor.
 - k. The contractor should make complete arrangements to make the Medical Oxygen Supply System operational during emergency.
 - l. The service provider will be responsible for any kind of fault in supply system, any repair, replacement of items, modification, leakage arresting, changes in copper piping work like cutting, copper brazing/ welding, re-fitting etc. as per the requirements and also the service provider will be responsible for any delay or interruption in supply of medical oxygen. The service provider has to maintain Oxygen Cylinders bank for emergency backup.
 - m. The Operators and other staff for the Medical oxygen supply facility shall be sole responsibility of the service provider. Service provider shall deploy adequately trained staff to run the facility round the clock as per requirement.
 - n. Contractor should be responsible for general works like Oiling, Greasing, servicing, Cleaning of plant, system, parts, Housekeeping & painting thereof etc. during the work of complete system without any extra cost.
 - o. The contractor shall be required to execute the work in such a way so as not to cause any damage, hindrance or interference to the activities and work going on in the area adjoining thereof. Any damages shall be repaired by him at his own cost. If he does not repair the damages in reasonable

time period, the same will be repaired by DPA at the sole risk and cost of contractor and amount will be recovered from the bill due.

- p. Party shall also visit and inspect site and acquaint himself with all local condition and working condition at and around the site. No dispute/claims what-so-ever shall be entertained for the work of any nature arising out of local conditions.
- q. The Contractor shall examine carefully the condition of contract, scope, site etc. He shall also visit and inspect site of work and acquaint himself with all local condition inside the port, working condition at and around the site. No dispute/claims what-so-ever shall be entertained for the work of any nature arising out of local conditions.
- r. The contractor shall ensure that the wages paid by him to the personnel deployed by him are not less than the prevailing Minimum Rates of Wages per person per day in respect of Area-C as notified by the Chief Labour Commissioner (C), Ministry of Labour & Employment, New Delhi, from time to time in respect of the Skilled Category and Highly Skilled Category.
- s. At any point of time during the currency of the contract if it is found that, the wages are not being paid in accordance with the prevailing statutory rates of minimum wages notified from time to time by the Chief Labour Commissioner (C), Ministry of Labour & Employment, New Delhi, the contract shall be terminated forthwith and the performance security shall be forfeited.
- t. Contractor must issue an identity card, proper uniform and PPE Kits to their staff before commencement of work. The contractor has to provide the required PPE kit to his engaged staffs viz. helmet, safety shoes, gloves, masks, ear-buds etc.
- u. During Contract work all complaints/ defects / defective parts shall be replaced by the Service Provider within 24 Hrs. after receiving complaint from department. In case of failure to attend and rectify the complaint the work shall got done by the department on the risk and cost of contractor and shall be recovered from the running bills.
- v. The contractor shall be responsible for any damage of civil works during execution of work & contractor shall make good the same without any extra cost.
- w. For Operation and Maintenance of installed PSA oxygen plant below mentioned points are to be taken care by the tenderer.
 - Proficiency to work as Plant operator of PSA Oxygen plant installed at Gopalpuri Hospital taking in view the Plant and Personal Safety.
 - Competent to do all the regular Maintenance aspects viz. Oiling, Greasing, servicing, Cleaning etc. without any extra cost.
 - Do the functional checks as when and where required viz. the concentration of Oxygen from Oxygen gas analyzer.
 - Change of Oil and Air Filter of Compressor unit, Change of Air Pneumatic Air Pipes & fittings of system by the contractor without any extra cost.
 - Start and Shut down of PSA Oxygen Plant by SOP/ instructional manuals.
 - Other Repair or maintenance of PSA Oxygen plant only, if any will be carried out with the help of the O.E.M. manufacturer.

2. Other Terms & Conditions

- 2.1. The Log book for record of any breakdown/shut down of the machine/facility will be maintained by the Medical Department, in which the contractor shall mention the details of manpower deployed and Repair & Maintenance done as per instructions of Engineer-In-Charge.
- 2.2. The service provider shall not sell or transfer any proprietary right or entrust to any other third party for running the same facility.
- 2.3. The service provider shall abide by all the guidelines issued by the Authority and statutory bodies. In case of violation the contract could be terminated after providing an opportunity of hearing to the contractor, at one month's notice. Dispute resolution shall be as per arbitration clause given in the contract.
- 2.4. The complete responsibility for safe working of skilled & unskilled staffs will be borne by the Contractor. DPA will not be responsible for any loss, damage or accident to any of the staff. The Contractor have to provide comprehensive insurance coverage of engaged manpower.
- 2.5. The staffs should have a sober behavior and obedient. Any staff coming in intoxicated condition will not be accepted by the administration.
- 2.6. All the applicable labour laws shall be followed by the contractor.
- 2.7. Liquidated Damage Clause:
 - In case of delay in completion of the work i.e., delay in deployment of operator, or, non-deployment of the operators as per instruction, or, non-attending the R&M of the system as per instruction, or, delaying in R&M of the system, liquidated damages (LD) may be levied at the rate of 1/2% of the work-order value per week of delay or part thereof, subject to maximum of 10% of the work-order price. The employer, if not satisfied with the progress of the work and in the event of failure of the contractor to recoup the delays in the mutually agreed time frame, shall be entitled to terminate the contract. In the event of such termination of the contract as described, the employer shall be entitled to recover LD up to ten percent (10%) of the work-order value and forfeit the security deposit made by the contract or besides getting the work completed by other means at the risk and cost of the contractor.
 - Also, if any Operator is not available/absent on any day, penalty will be levied as: Rs. 800 per day per person.
 - The Full attendance per person per month except Port closed holidays & Sundays will be required for the deployed manpower's. As per Contract employee act & other prevailing rules, each staff shall be allowed to avail 12 nos. CL per year subject to prior intimation/ approval. The contractor shall maintain a register of Leave-record of all the staffs engaged by the contractor for the work, and get it signed by the E-I-C every month. Also, if required, in case of exigency and prior intimation, the contractor has to deploy the substitute staff against the staff on leave at no extra cost.
 - The extra hours of work can be deposited as reserve Supplementary/Off (01 S/O for total 8 hrs. of extra work hours-this 8 hrs. may be total of extra hours of several days) which can be utilized in the form of leave subject to permission of the Engineer-in-charge during no/light work. The record of such extra hours and respective S/O generated must be maintain by Supervisor with duly signed by Engineer-in-charge. No other forms of reimbursement for extra hours of work will be entertained.

2.8. Settlement of Disputes:

- The Employer and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with Contract.
- If, after twenty-eight (28) days the parties have failed to resolve their disputes or differences by such mutual consultation, then either the Employer or the Contractor may give notice to the other party of its intention to commence arbitration, as hereinafter provided as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceeding shall be conducted in accordance with the rules procedure specified in the SCC.
- Notwithstanding any reference to arbitration herein:
 - (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) The Employer shall pay the Contractor any amount due the contractor.

2.9. The period of the contract shall be for 5 years, from the date of issue of work order. The same shall be extendable to further 12 months based on mutual consent, on same terms & conditions.

2.10. The contractor is expected to have full knowledge of work, work site and nature of work and no claim whatsoever shall be entertained in this regard.

2.11. The contractor shall be required to execute the work in such a way so as not to cause any damage, hindrance or interference to the Hospital activities and work going on in the area adjoining thereof. Any damages shall be repaired by him at his own cost. If he does not repair the damages in reasonable time period, the same will be repaired by Deendayal Port Authority at the sole risk and cost of contractor and amount will be recovered from the bill due.

2.12. All fooding, lodging & transportation cost should be solely bear by the contractor. The contractor shall also arrange for transportation of staffs & materials if required from work site to repair site and vice-versa.

2.13. The contractor shall not engage/employ persons below the age of 18 years. The details of the engaged staffs shall be submitted to the officials of Medical Department Medical Officer or Engineer in Charge. Further, the deployed staffs shall be fully vaccinated against COVID as per government guidelines.

2.14. Payment of Schedule-B, BOQ(Part-A) shall be released as per deployment of the operators for round the clock Operation work and actual nos. of visit carried out for R&M, on satisfactory completion of task and submission of required documents like attendance & log books. The bill to be submitted on monthly basis.

2.15. The payment in respect of other items Schedule-B, BOQ(Part-B) the payment will be released as and when the item is utilized in R&M work on actual quantity used basis, along with the monthly payments.

2.16. The additional quantity of the BOQ items during the tenure of the work as per actual quantity/ measurement, if any, shall be paid to the firm at the quoted unit rate of the respective items of the BOQ-Part(A) & Part (B).

2.17. Performance Security

- Security Deposit shall consist of Performance Guarantee of 3% of the contract price which shall be deducted from the payment amount, which will be refunded immediately not later than 14 days from completion of work period.
- 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.

2.18. Tools, Tackles & Machineries:

- The tools tackles and required equipment, required for doing the work, shall be arranged by the contractor i.e., sufficient spanner-sets, tester, screw driver set, pliers, and hacksaw with blade, safety belts, acetylene cylinder for copper brazing, hose, brazing rods, brazing-torch etc. and other machineries required for carrying out the services satisfactorily.
- Consumable like Cotton Waste, Soap, Cleaning Cloth, Detergent, Solutions, Taps, Anti-corrosion fluid, Cleaners, Liquid, and CTC etc. shall be arranged by the Contractor at his own cost as & when required.

2.19. No Lien/Claim:

- The personnel provided by the contractor shall have no lien of claim in any manner on DPA, after their services are no more required by the DPA or during their deployment. The personnel of contractor will not take part in any activity of DPA employee's union/Association as well as visitors.

2.20. DPA also reserves the right to fore close the contract with three months' notice period without payment of any compensation.

2.21. Income Tax and surcharge as applicable will be deducted as per the prevailing rules.

2.22. Rate should be inclusive of all taxes, excluding GST. Applicable GST on the taxable value of supply of Goods or Services or both covered in this tender/contract will be paid by Port on production of bill mentioning GSTIN. Applicable Statutory recoveries including TDS under Income Tax, TDS under GST acts will be deducted/ recovered while accounting for or making payments to the Vendor as per the applicable laws. 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 of the contractor/service provider/supplier

2.23. The Contractor shall at all times during the tenure of the work comply fully with all existing Acts, Regulations and bye laws including all statutory amendments and re-enactment of State or Central Government and other local authorities and any other enactments and Acts that may be passed in future either by the State or the Central Government or local authority.

2.24. All boarding, lodging & transportation cost should be solely bear by the contractor.

2.25. Work should be carried out in good workmanship, and only skilled technician & staffs may be deployed to execute the work.

- 2.26. **WARRANTY:** The Seller shall warranty that all piping and medical equipment fittings shall be brand new and of first class workmanship. The warranty period shall be valid up to six months (6 months) with effect from the date of acceptance of the work and/or services. Any part found defective due to either faulty design, defective material and/or faulty workmanship during the warranty period shall be rectified/ replaced free of cost to DPA by the agency. However, normal wear & tear of the parts or defects/deficiencies caused due to negligent handling and improper maintenance of the plant and machinery by the Purchaser and damages due to natural hazards like fire, earthquake, flood etc. shall not come under the purview of the warranty.
- 2.27. **FREIGHT & INSURANCE:** Freight inclusive of the amount till at Gopalpuri, Gandhidham site.
- 2.28. **Third Party Inspection:**
- The piping work and medical equipment fittings as per specification shall be inspected by Third Party Agency appointed by DPA at site, and cost of the TPI shall be borne by DPA. Inspection Procedure for such inspection by DPA's authorized representative(s) shall be mutually settled immediately after the Contract becoming effective.
 - The Third Party Inspection Agency will carry out approval of drawings for the work if any, and, inspection & certification for the work done if required.
 - The Third Party shall carry out inspection of Staff-profile & supplied materials as per tender conditions/ specification.
 - The monthly payment of the contractor shall be released after certifying by the third party and copy of the same shall be produced by Contractor for releasing the payment as per Payment Terms.
- 2.29. All necessary requirements under the Explosive Act, 1884, Explosive Substances Act, 1908 and Drugs (Control) Act, 1950 for the performance of the contract will have to be arranged by the contractor himself. DPA will not be responsible for any violation of these acts. Any liability arising out of any violation of the statutory provisions shall be recoverable from the contractor.
- 2.30. The contractor shall be responsible for Statutory clearance/ certification, if any, required for the plant & unit. DPA shall only reimburse the fees for such instance and assist in documentation for the required clearance/ certification, if any.
- 2.31. **FORCE MAJEURE:** In the event that the Contractor is delayed in performing its obligations in the contract, and such delay is caused by force majeure including war, civil resurrection, strikes (other than the strike solely by the Contractor's men), fire, flood, epidemics, earthquakes, extremely adverse climatic conditions, such delay may be excused and the period of such delay may be added to the time of performance of the obligations without any addition to the contract price. If a force majeure situation arises, the Contractor shall promptly notify the Board in writing of such condition and the cause thereof, but not later than 7 days from its occurrence. Unless otherwise directed by the Board in writing, the Contractor shall continue to perform its obligations under the contract as far as reasonably practicable. The Contractor shall demonstrate to the Board's satisfaction that it has used its best endeavour to avoid or overcome such causes of delay and the parties will

mutually agree upon remedies to mitigate or overcome such causes of delay without having any right to any claim on account of such force majeure. In any other Situation, which is beyond the reasonable control of the Contractor in the opinion of the Engineer In-charge, and where the Contractor has promptly notified the Board in writing about such situation, it may be considered as "Force Majeure" situation.

2.32. Any other conditions/ obligations must be followed strictly as and when instructed.

Contractor

**Sd/-
Executive Engineer (M)
Deendayal Port Authority**

Form – A

LETTER OF TRANSMITTAL
(To be typed in Firm's Letterhead)

To

Executive Engineer (M)
Port & Customs Building,
New Kandla (Kutch), Gujarat-
Email ID :- mech.div.kpt@gmail.com

Sub: (.....Name of the Work.....)

Sir,

Having examined the details given in EOI Notice and EOI document for the above project, I/we hereby submit our Expression of Interest and the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed form and accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for EOI and have no further pertinent information to supply.
3. I/We also authorize Deendayal Port Authority or their authorized representatives to approach individuals, employers and firms to verify our competence and general reputation.
4. I/We submit the following certificates in support of our suitability and capability for having successfully provided the services along with prescribed format.
5. We understand that DPA will be at liberty to finalize requirements and issue public tenders for the work.

Signature(s) of Applicant(s)

Enclosures:

Seal of applicant:

Date of submission:

Form - B**Name of firms/Applicants**

(Organizational Structure)

1	Name & Address of the applicant with Telephone No./Fax No	
2	a) Year of Establishment	
	b) Date & Year of commencement	
	c) Legal status of the applicant (attach copies of original document defining the legal status)	
3	a) A proprietary firm	
	b) A firm in partnership	
	c) A limited company or Corporation/ Joint venture / Consortia	
	d) State owned	
4	Any other information considered necessary but not included above	
5	PAN Number	
6	GST Registration Number	
7	Provident Fund Certificate Number	

Signature with Seal

Form - C

Details of past experience in the Last Five (5) Years

Sl. No.	Name of Work	Name of Client	Estimated cost in Rs.	Date of Completion
1				
2				
3				
4				
5				

Signature with Seal

Form - D**Schedule – B**

Sub: “Annual Rate Contract for Operation and Maintenance of Medical PSA Oxygen generation plant and Medical oxygen piping system installed at DPA Hospital, Gopalpuri for the period of 5 years.”

BOQ(Part-A)

S.N.	Description	Qty.	Unit	Unit Rate	Total
				(in Rs.)	(in Rs.)
1	2	3	4	5	6
1	Operation Cost per Month for providing services on contractual basis for round the clock operation of PSA Oxygen Plant complete system along with Medical oxygen Copper piping network system and Automatic changeover system as per the scope of work.	60	Months		
2	Cost per visit per day for OEMs Breakdown visit for PSA Oxygen Plant complete system, repair & maintenance work i.e. (Cutting, Welding, Brazing, replacement, refitting, testing etc.) of Medical oxygen Copper piping network system & Automatic changeover system and fittings including manpower deployment cost for R&M as per the scope of work. (as and when required)	75	Visit		
Total of BOQ(Part-A)					

BOQ(Part-B) (Supply and Fixing of spare material with indicative tentative quantity for 05 Years, as & when required)

Sr. No	Description	Qty.	Unit	Rate	Amount
1	Supply and fixing & brazing of 28 mm Diameter Seamless type Copper Pipe for Oxygen Line.	150	Feet		
2	Supply and fixing & brazing of 22mm Seamless type Copper Pipe for Oxygen Line.	250	Feet		
3	Supply and fixing & brazing of 15mm Seamless type Copper Pipe for Oxygen Line.	150	Feet		
4	Supply, fixing & brazing of Elbow 90° of appropriate size	60	Nos		
5	Supply, fixing & brazing of Coupler of appropriate size	60	Nos		
6	Supply, fixing & brazing of Supply & fixing of Saddle of appropriate size	60	Nos		
7	Supply, fixing & brazing of Equal Tee of appropriate size	60	Nos		
8	Supply, fixing & brazing of Reducing Elbow 90 Degree	60	Nos		

	of appropriate size				
9	Supply and fixing of Oxygen Flowmeter and Humidifier Bottle, Application for Hospital uses. Body: Brass Tube: Polycarbon (0-15 ltr. capacity/min) Knob: ABS Powder Jar: Polycarbon Unbreakable (Capacity: 200ml) Ball: Stainless Steel Accuracy: + 0-5%	40	Nos		
10	Supply and fixing of Oxygen Outlet Medical gas outlets are the point of provision of medical gases to patients. They also allow operation of surgical tools and supply respiratory ventilators during surgical procedure and / or anesthesia.	50	Nos		
11	Oxygen Mask	50	Nos		
12	Structure & Steel for Pipe support, Anchor bolts for pipe supports, U-bolts etc. for piping	125	Kg		
13	Supply and fixing/ brazing of Ball Valve Size :- 28mm	15	Nos		
14	Supply and fixing/ brazing of Ball Valve Size :- 22mm	15	Nos		
15	Supply and fixing/ brazing of Ball Valve Size :- 15mm	15	Nos		
16	Supply, fixing & brazing of Manifold Medical manifold system.	2	Nos		
17	Supply & installation of Line Pressure Alarm System	2	Nos		
18	Supply & installation of Automatic Panel system for Cylinder Bank - Pressure Switch, Gauge	2	Lot		
19	Supply & installation of Pressure control Regulator	5	Lot		
20	Supply & installation of Pressure Gauge with suitable fittings	20	Nos.		
Total of BOQ(Part-B)					
Total of [BOQ(Part-A)+ BOQ(Part-B)]					

(Total Rupees (excluding GST) _____ Only)

GST: _____% extra.

Note: -

1. The rates to be quoted shall be inclusive of all charges, taxes, Cess, Duty etc. except GST, if any.
2. Contractor has to visit the site for actual quantification of the proposed job and quantum of the job.
3. Contractor shall carry out site visit for complete understanding of the scope of work.
4. Payment of Schedule-B, BOQ(Part-A) shall be released as per deployment of the operators for round the clock Operation work and actual nos. of visit carried out for R&M, on satisfactory completion of task and submission of required documents like attendance & log books. The bill to be submitted on monthly basis.
5. The payment in respect of other items Schedule-B, BOQ(Part-B) the payment will be released as and when the item is utilized in R&M work on actual quantity used basis, along with the monthly payments.

Contractor

**Sd/-
Executive Engineer (M)
Deendayal Port Authority**